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**PHASE II ENVIRONMENTAL BASELINE SURVEY OF  
McCORMICK RANCH, KIRTLAND AIR FORCE BASE,  
NEW MEXICO**

**Part 2 of 5**

**Grace Hagaraty  
Jeff Johnson  
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**GRAM, Inc  
8500 Menaul Blvd NE  
Albuquerque, NM 87112**

**31 January 1996**

**Final Report**

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**PHILLIPS LABORATORY  
Support Directorate  
AIR FORCE MATERIEL COMMAND  
KIRTLAND AIR FORCE BASE, NM 87117-5776**

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PL-TR-95-1042

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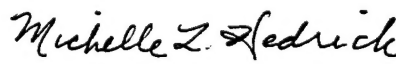
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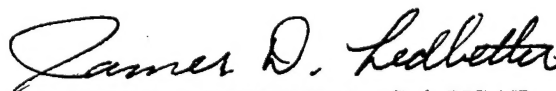
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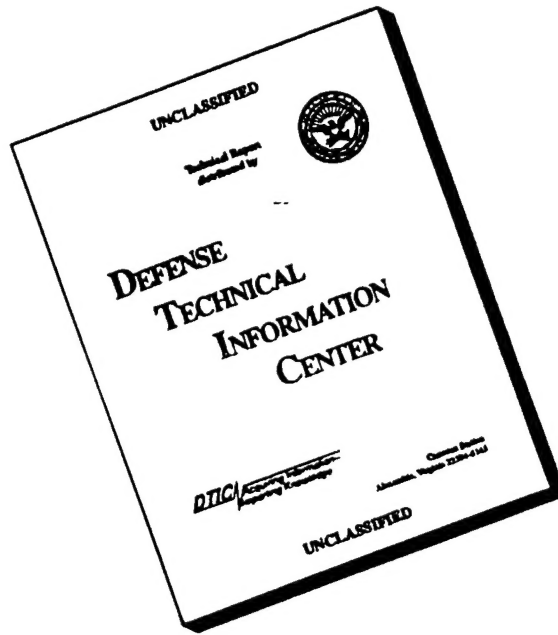
  
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				5b. Program Element # 62601F	
6. Author(s) Grace Hagaraty, GRAM, Inc. Jeff Johnson, GRAM, Inc. Pete Middlebrooks, LATA				5c. Project # 9993	
				5d. Task # 00	
				5e. Work Unit # SE	
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12. Distribution/Availability Statement Approved for Public Release; Distribution is Unlimited					
13. Supplementary Notes Work done in association with Los Alamos Technical Associates					
14. Abstract The Phase II EBS results document the extent of environmental contamination believed to be present on McCormick Ranch. Explosive test areas having the greatest potential for containing soil contaminants were identified using the following geophysical survey methods: EM 31 terrain conductivity meter, magnetometer/gradiometer, and ground penetrating radar. From the geophysical surveys five areas were selected to conduct further environmental analysis. A total of 310 soil samples were collected from the five areas and 13 specific high explosive test sites. The samples were screened for semi-volatile organic compounds, PETN, TNT, TNT-degradation products, nitrates and radioactivity. Laboratory analyses were performed and no explosives or degradation products were identified. Semi-volatile organic compounds were found in 2 samples, manganese was detected in 3 samples, nitrates were discovered below soil action levels and radiation levels were below background. Consequently, it is unlikely that significant contamination exists.					
15. Subject Terms McCormick Ranch, Environmental Baseline Survey, Contamination					
16. Report Unclassified	17. Abstract Unclassified	18. This Page Unclassified	19. Limitation of Abstract  Unlimited	20. # of Pages  214	21. Responsible Person (Name and Telephone #)  Michelle Hedrick 505-846-4574



# SURVEYING RESULTS

PT. NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1436164.750000	404472.100000	5264.140000	START
2	1436288.970000	395043.370000	5286.400000	ACSIU17
81	1437654.060410	402488.570930	5250.723260	PT81
82	1437648.024170	402451.169240	5250.163310	PT82
83	1437621.658990	402506.735970	5252.118440	PT83
84	1437608.602340	402510.767560	5252.790250	PT84
85	1437544.763990	402548.702520	5251.643590	PT85
86	1437535.146250	402552.102330	5251.684940	PT86
87	1437389.465540	402558.646030	5250.738650	PT87
88	1437395.814820	402623.329700	5250.373930	PT88
89	1437298.158860	402675.414140	5251.094120	PT89
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522	1437152.305090	401235.910500	5250.883090	NE-AREA5
523	1437261.056530	400748.656560	5250.930100	NW-AREA5
530	1440468.003920	402094.313550	5260.634460	NE-AREA2
531	1439977.364510	402001.200670	5256.822440	SE-AREA2
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533	1440574.792540	401607.110230	5257.830040	NW-AREA2
540	1441024.282250	403550.825160	5268.810260	NE-AREA4
541	1440535.174990	403448.027320	5267.961390	SE-AREA4
542	1440649.231410	402961.807690	5264.792460	SW-AREA4
543	1441137.413350	403064.404440	5262.409670	NW-AREA4
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USGSWELL1001				
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USGSWELL1002				
602	1437492.460290	399927.392450	5253.641770	
USGSWELL1003				
604	1439798.923880	399639.264330	5254.260600	
USGSWELL1004				
605	1441813.145260	402755.095340	5269.153240	
USGSWELL1005				
610	1436176.299320	399137.259460	5252.635290	
BRASSCAP-MP6				
611	1436170.322500	401784.333290	5251.033820	
BRASSCAP-MP6.5				
615	1441174.487620	403273.523310	5266.009450	SOUTHSIDE
SIL0				
700	1437618.124880	402420.106560	5251.646660	TR2 N-S SE
701	1437620.361180	402416.526630	5251.627040	TR2 N-S SW
702	1437627.494500	402420.404500	5251.317120	TR2 E-W SE
703	1437632.955860	402409.255150	5251.197240	TR2 E-W SW
704	1437637.666170	402411.425820	5251.192600	TR2 E-W NW
705	1437632.199170	402423.276600	5251.009760	TR2
706	1437625.496000	402424.573010	5251.277900	TR2
710	1437408.804840	402675.685620	5251.219980	TR1 E-W SW
711	1437413.108670	402675.990090	5251.419850	TR1 E-W NW
712	1437412.627450	402691.091560	5251.172600	TR1 E-W SE
713	1437415.181980	402690.020690	5251.053930	TR1 E-W NE
714	1437416.082260	402692.593660	5251.062890	TR1 N-S SE
715	1437430.437540	402685.466210	5251.195560	TR1 N-S NW
716	1437431.401130	402688.417720	5251.205830	TR1 N-S NE
720	1440473.110450	401608.786320	5256.573980	TR3 N-S SW
721	1440472.658760	401612.265940	5256.562880	TR3 N-S SE
722	1440487.667620	401615.254960	5256.856680	TR3 N-S NE
723	1440488.315400	401611.919450	5256.428130	TR3 N-3 NW
724	1440489.621710	401610.963020	5256.488160	TR3 E-W NE
725	1440486.462830	401609.465760	5256.508690	TR3 E-W SE

726	1440489.913090	401595.839190	5256.356790	TR3	E-W	SW
727	1440493.276460	401596.841720	5256.336900	TR3	E-W	NW
730	1440881.177150	403344.216190	5265.870250	TR4	N-S	NW
731	1440881.228130	403346.517590	5265.867630	TR4	N-S	NE
732	1440864.983600	403344.051860	5266.581460	TR4	N-S	SE
733	1440865.533410	403341.731480	5266.284330	TR4	E-W	SE
734	1440867.937420	403342.011120	5266.182530	TR4	E-W	NE
735	1440872.159920	403329.766050	5266.291880	TR4	E-W	NW
736	1440869.471620	403328.408640	5266.295310	TR4	E-W	SW



## SOIL BORING LOG

SITE ID: KRTL0154DATE: 9/14/94LOCATION ID: 0001-0020BORE HOLE DEPTH (FT): 12

BORE HOLE DIAMETER (IN): \_\_\_\_\_

CONSTRUCTION METHOD: TLOCATION DESCRIPTION: Trenching Area 1 Geophysical Area 1. E-W Trench  
from 355E, 115N → 370E, 115NCOMMENTS: Hit reinforced concrete on eastern 3' of trench at 3-6'. Moved the  
trench back 3' to the west to avoid it. Sampled around the edge  
of the concreteFIELD REPRESENTATIVE(S): JJ, 91km

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0-3	0001-0005	100			See Diagram 1 on Back						
3-6	0006-0010	100			See Diagram 2 on Back						
6-9	0011-0015	100			See Diagram 3 on Page 2						
9-12	0016-0020	100			See Diagram 4 on Page 2						
12					Stop at 12'. Limit of backhoe						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

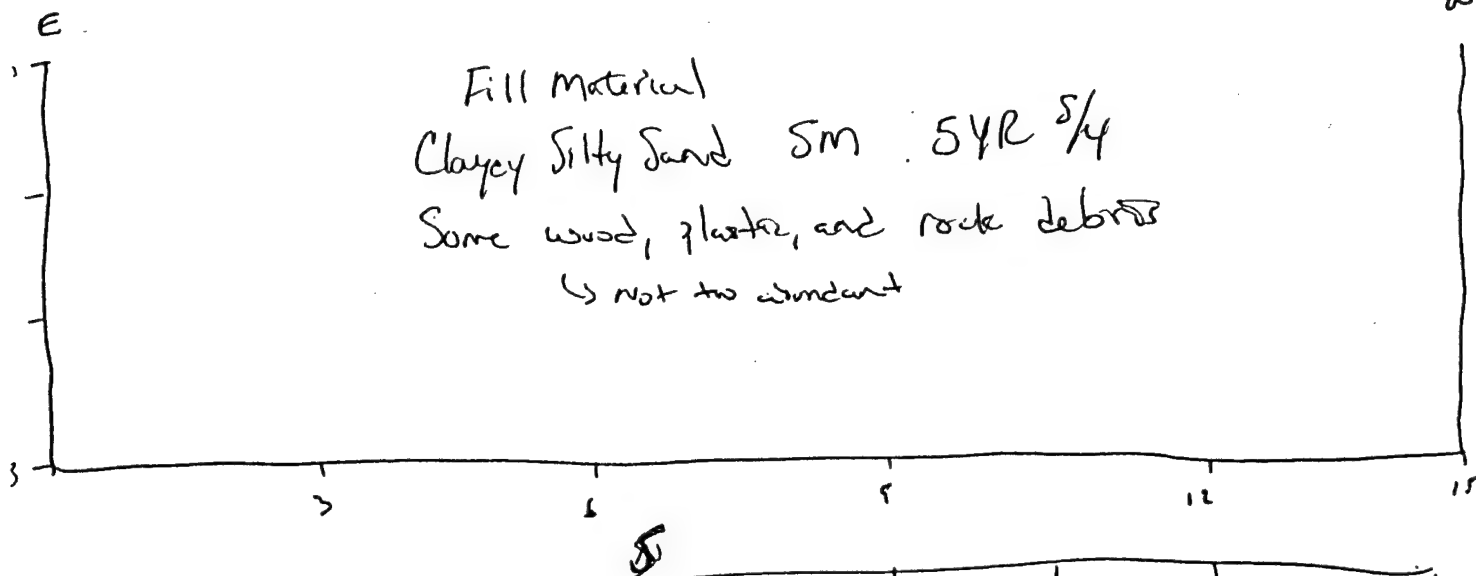
## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

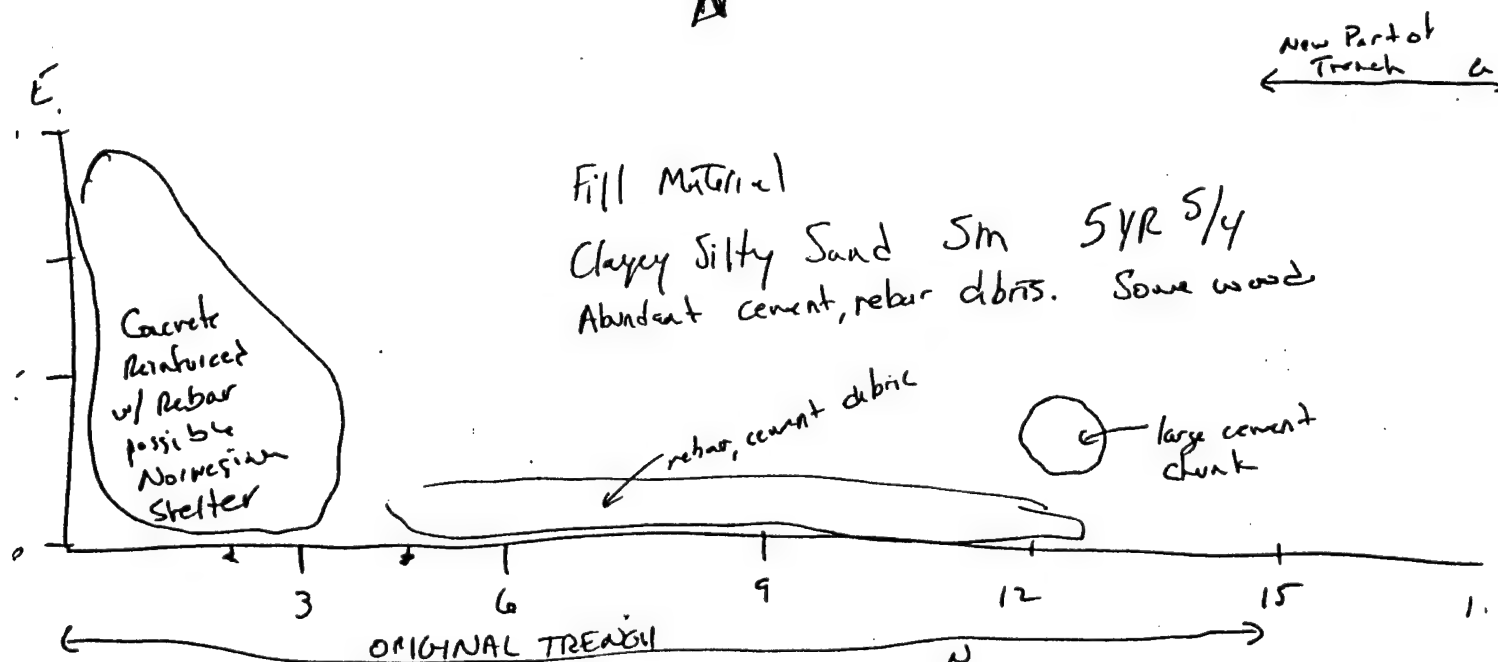
TECHNICAL REVIEWER: (SIGNATURE/DATE)



1A 0001				4D 0004		5A 0005
		2B 0002	3C 0003			

W

N



	2D 0007			5D 0001		
1B		3D			6C	

## SOIL BORING LOG

SITE ID: KRTL0154DATE: 9/14/97LOCATION ID: 0001-0020

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
					SEE BACK						



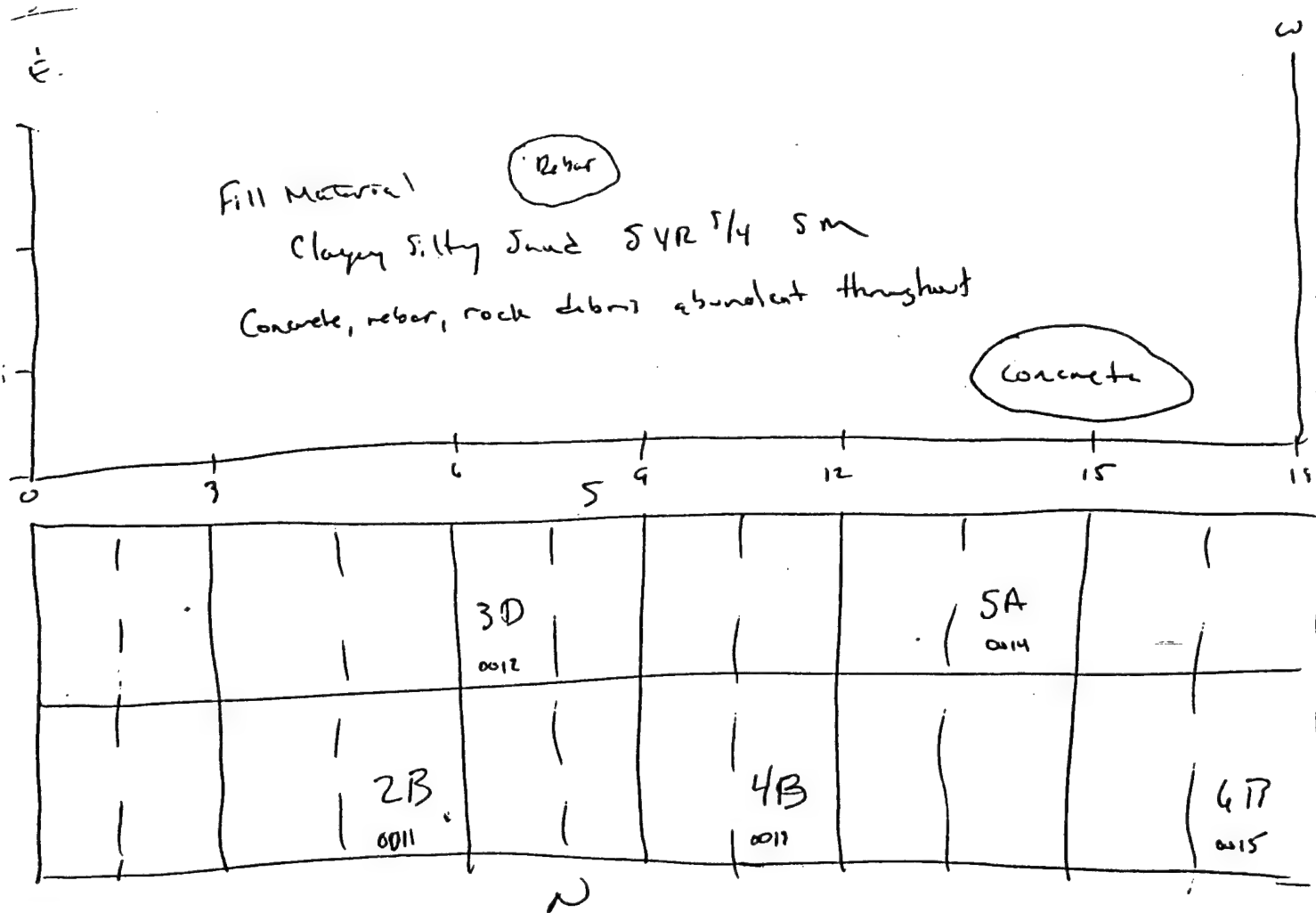
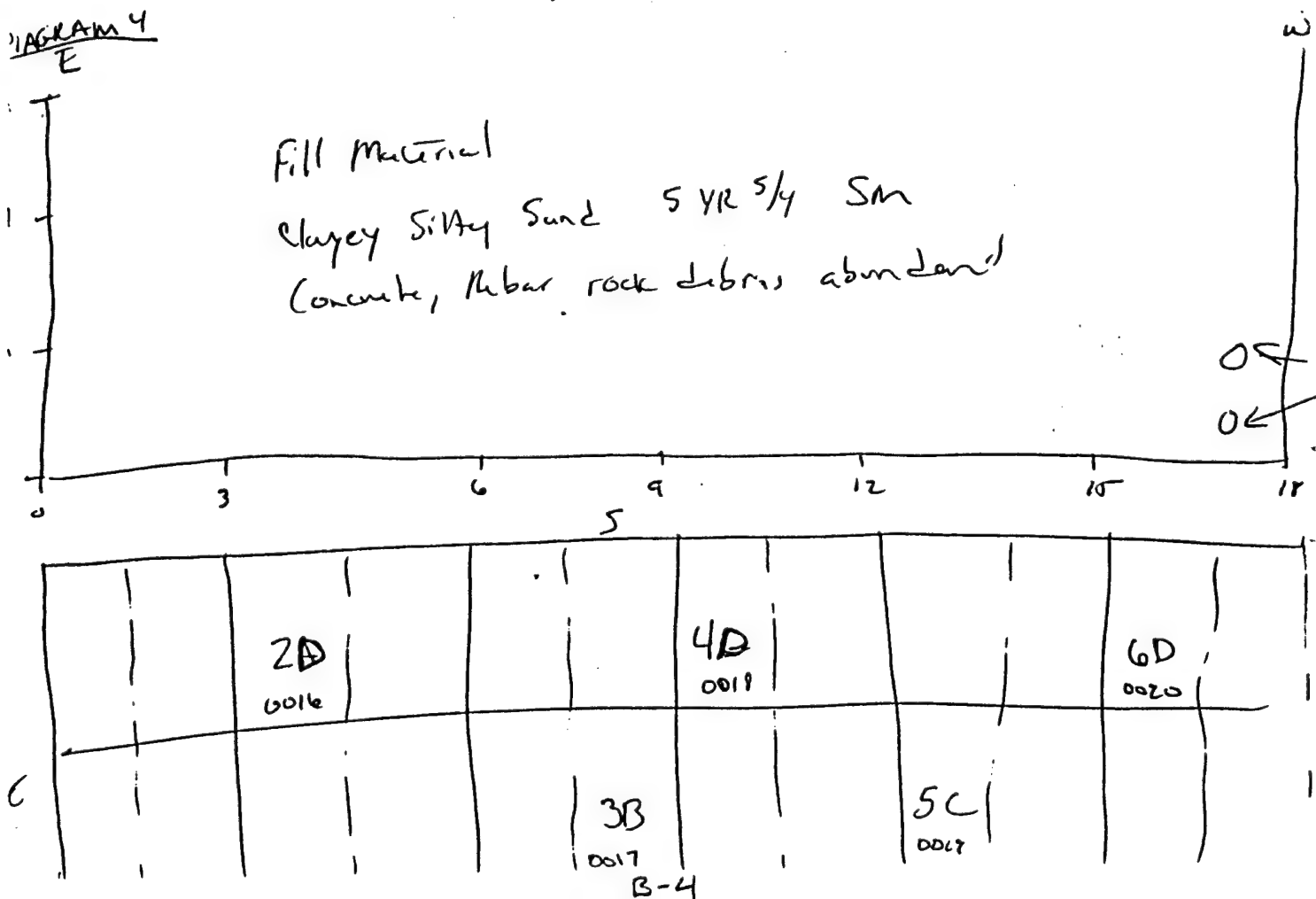


DIAGRAM 4  
E



DATE: 9/14/99

BORE HOLE DEPTH (FT): 6

CONSTRUCTION METHOD: \_\_\_\_\_

COMMENTS: Hit native soil at 5' on south side of trench. Obstruction (concrete) at 4' on north side. Stopped trench at 6'

FIELD REPRESENTATIVE(S): Pkm, JT

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

[illegible]

- **CONSTRUCTION METHODS**

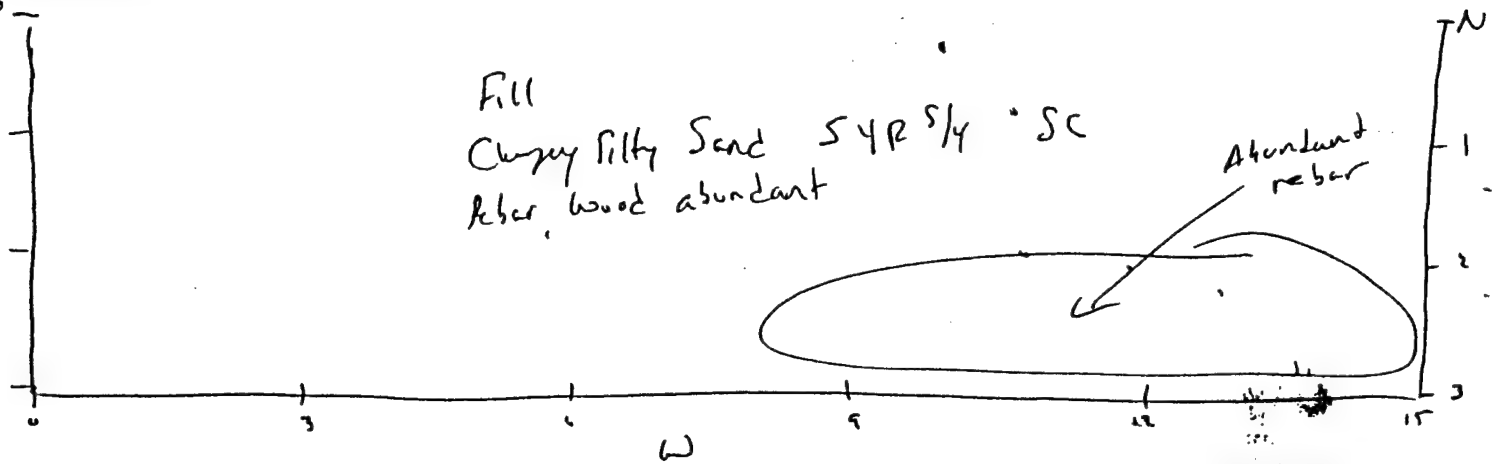
R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B- BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

# Diagram 1



1A 0021	2D 0032			4D 0024	4A 0034	5A 0025
1C 0031	2C 0022	3C 0023	3D 0033			5C 0035

## Diagram 2

1A 0037	2D 0038	2A 0039	3D 0028		4A 0029	
1C 0036	1D 0026	2C 0027	3C 0040			5B 0070



Silty Sand 5YR 7/3 SM  
Rebar, Cement, Native Soil

# SOIL BORING LOG

SITE ID: KETL D154

DATE: 9/12/91

LOCATION ID: 001-0060

BORE HOLE DEPTH (FT): \_\_\_\_\_

BORE HOLE DIAMETER (IN): \_\_\_\_\_

CONSTRUCTION METHOD: T

LOCATION DESCRIPTION: Geophysical Area 1. Trenching Area 2. N-S Trench  
Grid 70E, 265N → 70E, 280N

COMMENTS: Relocated to 70E, 270N → 70E, 285N. Flit debris in South S' of trench debris included: wire cage, spool holder, ALL BURNER

FIELD REPRESENTATIVE(S): PKM, JT

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

[illegible]

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

- CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

Diagram 1

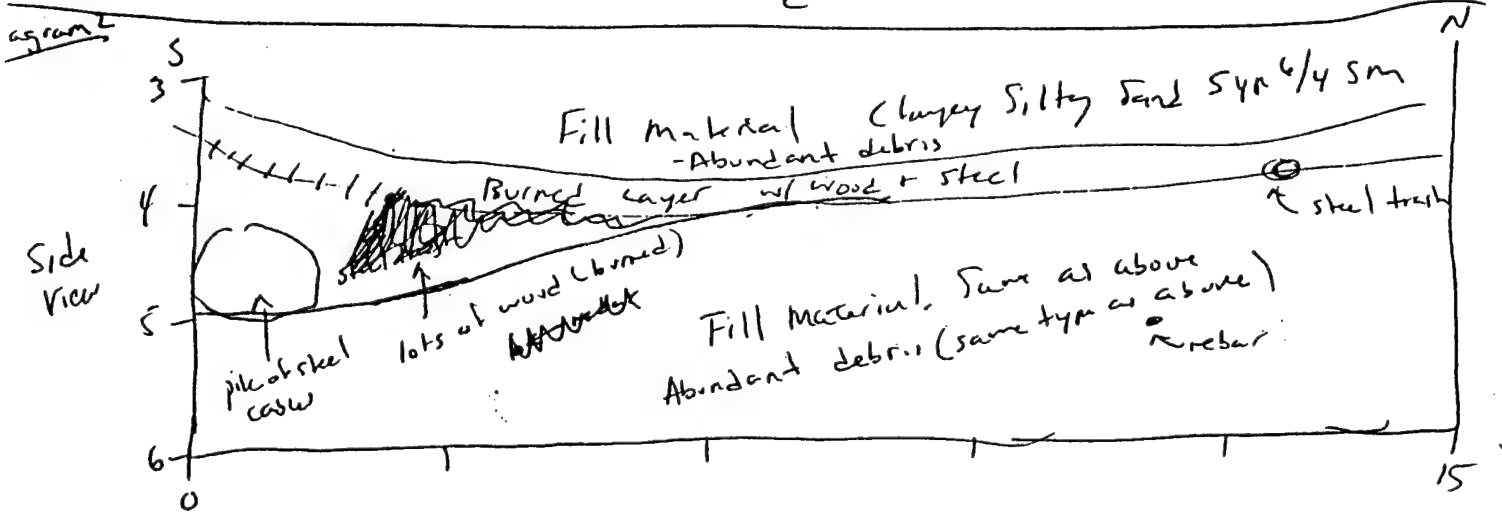
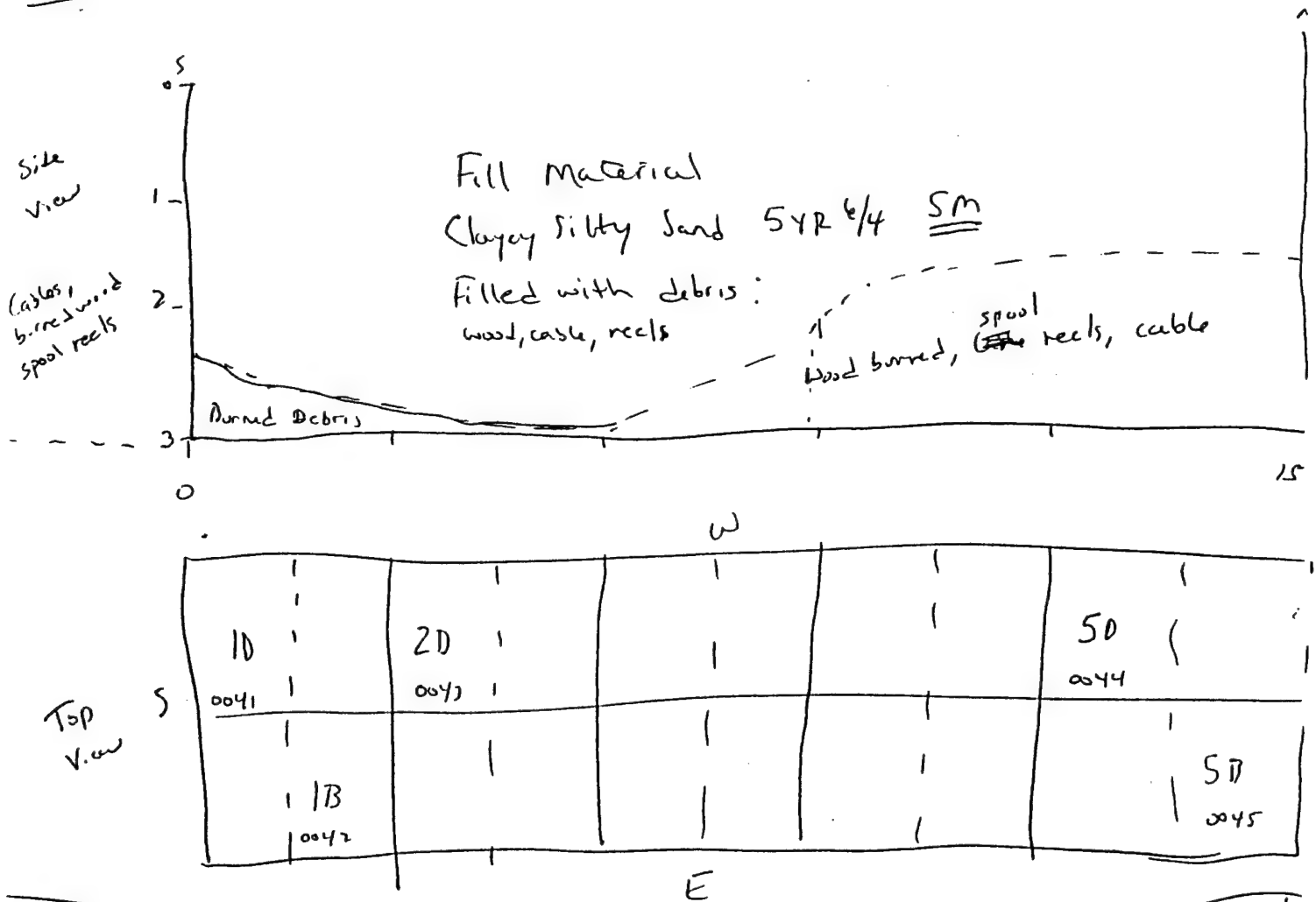
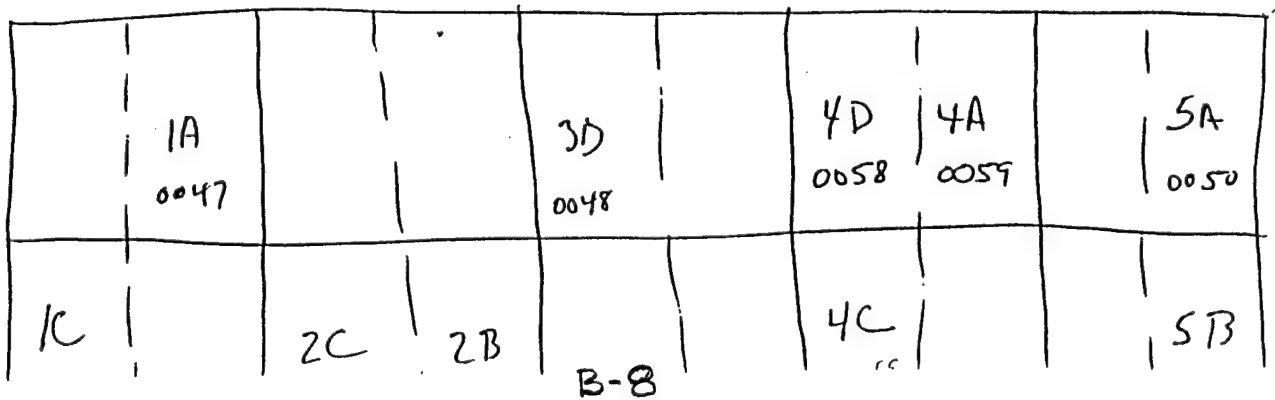


Diagram 2

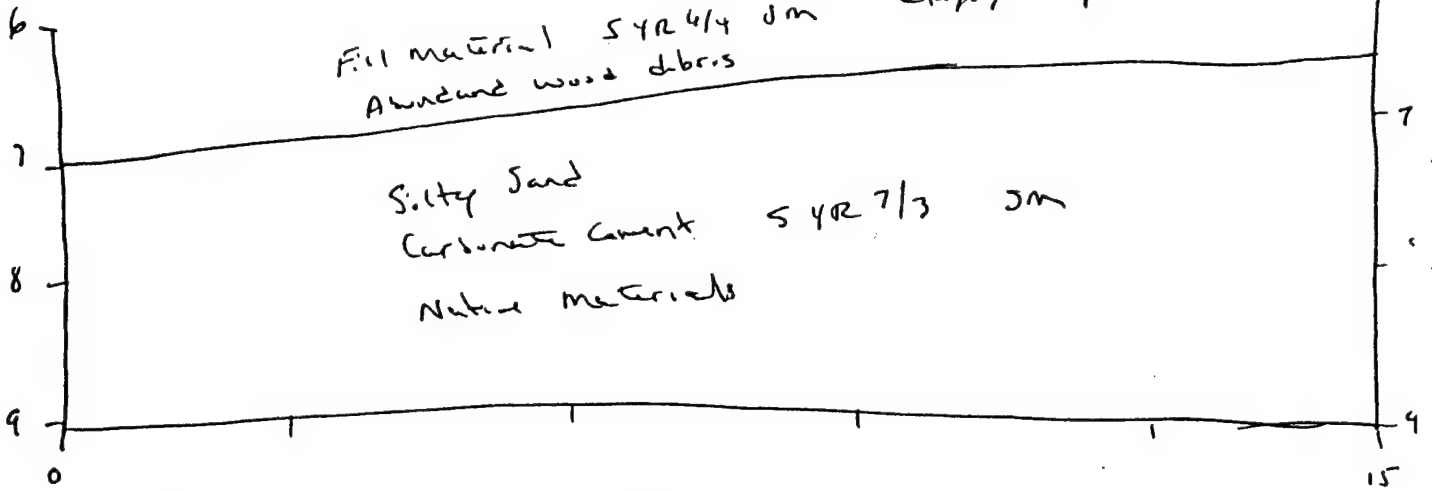




ram 3

South

North



W

	2A 0052		4D 0054	
S	1B 0051	3C 0053		5C 0055

E

## SOIL BORING LOG

SITE ID: KRTL154DATE: 9/13/94LOCATION ID: 0061-0080BORE HOLE DEPTH (FT): 9

BORE HOLE DIAMETER (IN): \_\_\_\_\_

CONSTRUCTION METHOD: TLOCATION DESCRIPTION: Geophysical Area 1. Trenching Area 2. E-W Trench  
TOE, 285N → ~~SEE~~ SSE, 285N

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): JJ, PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0-3		0061-0065		100	See Diagram 1 on back						
3-6		0066-0070 0070-0080		100	See Diagram 2 on back						
6-9		0071-0075		100	See Diagram 3 on back of page 2						

•• **SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• **CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 9/13/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

\_\_\_\_\_  
 TECHNICAL REVIEWER: (SIGNATURE/DATE)



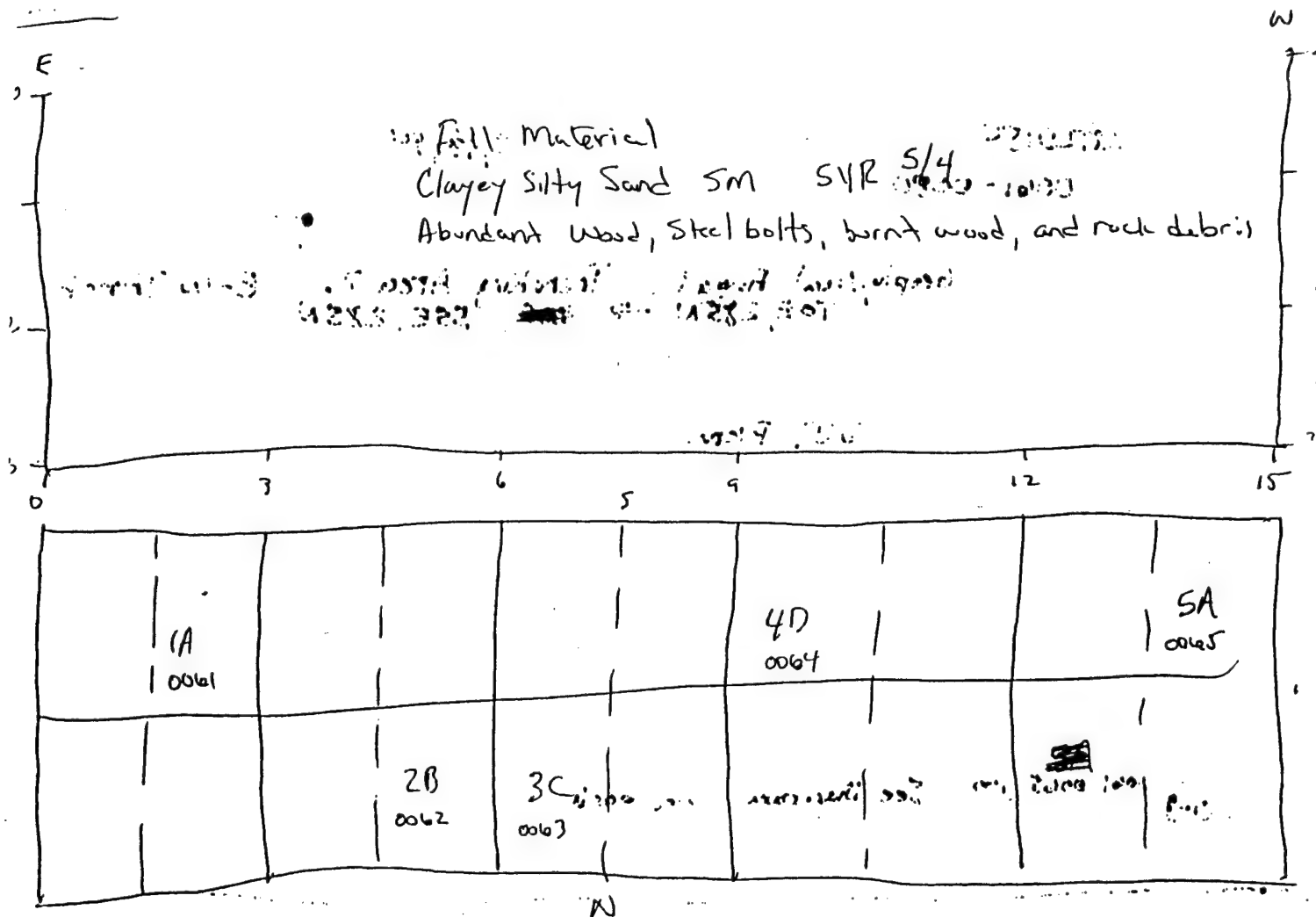
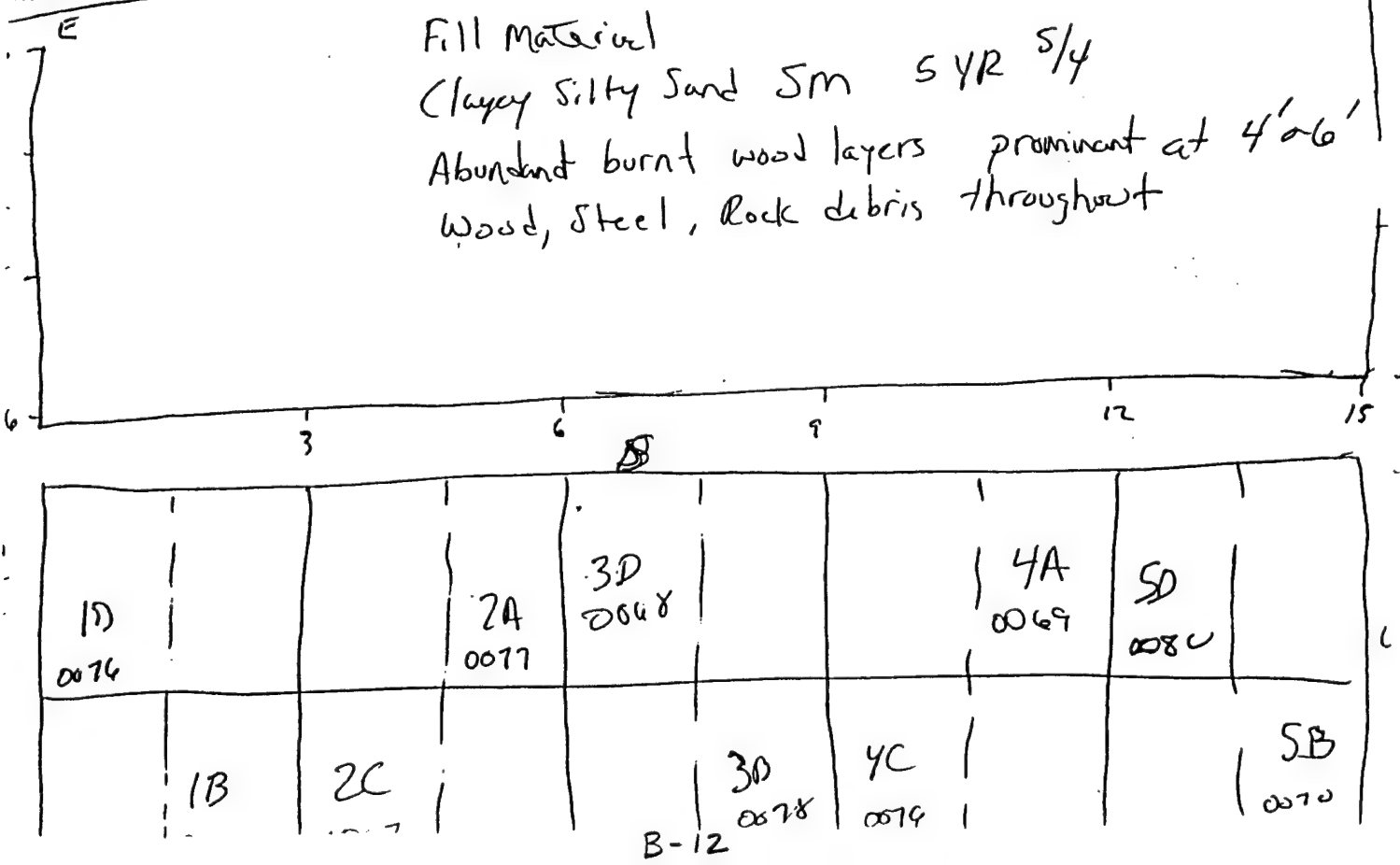


Diagram 2



# SOIL BORING LOG

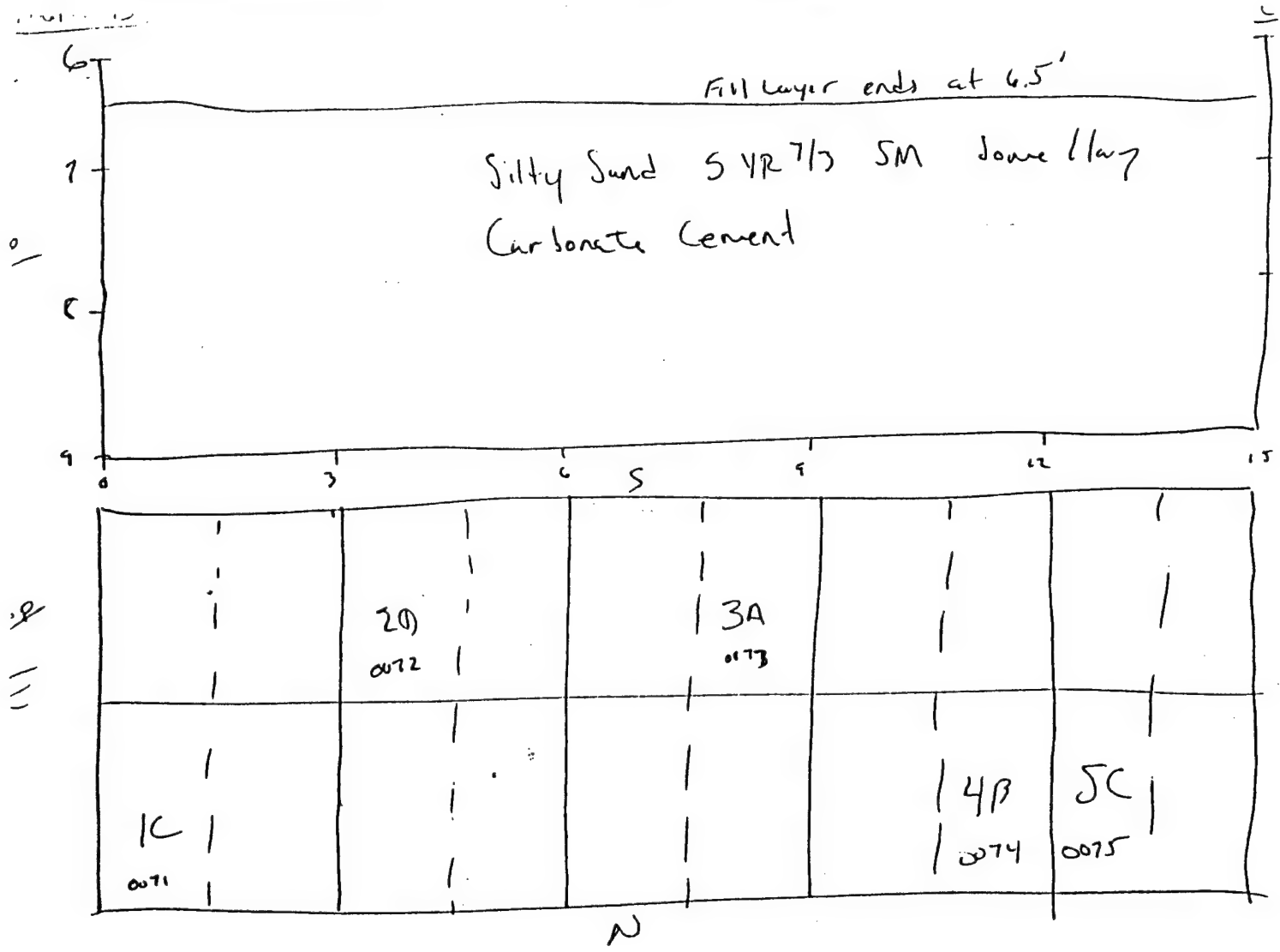
SITE ID: KRTL0154

DATE: 9/13/94

LOCATION ID: 0061-0080

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

[illegible]



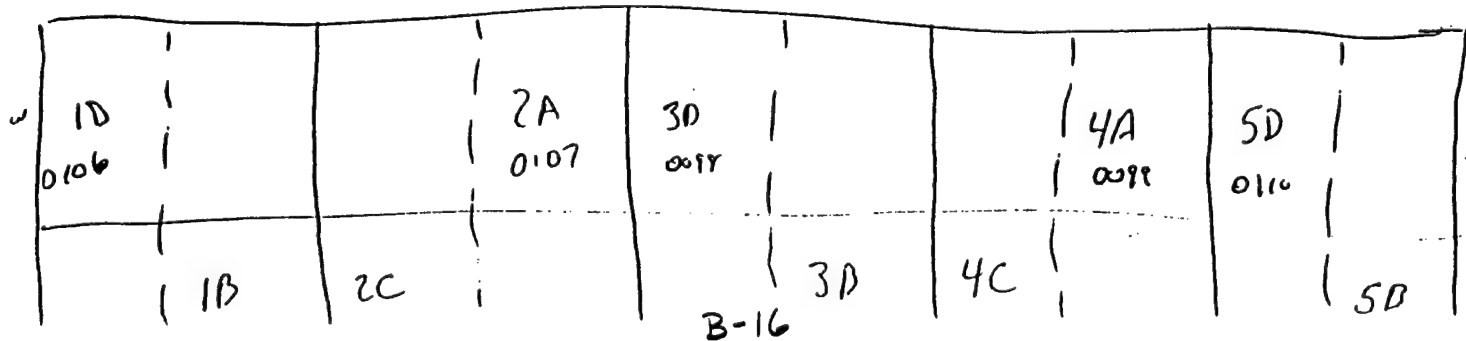
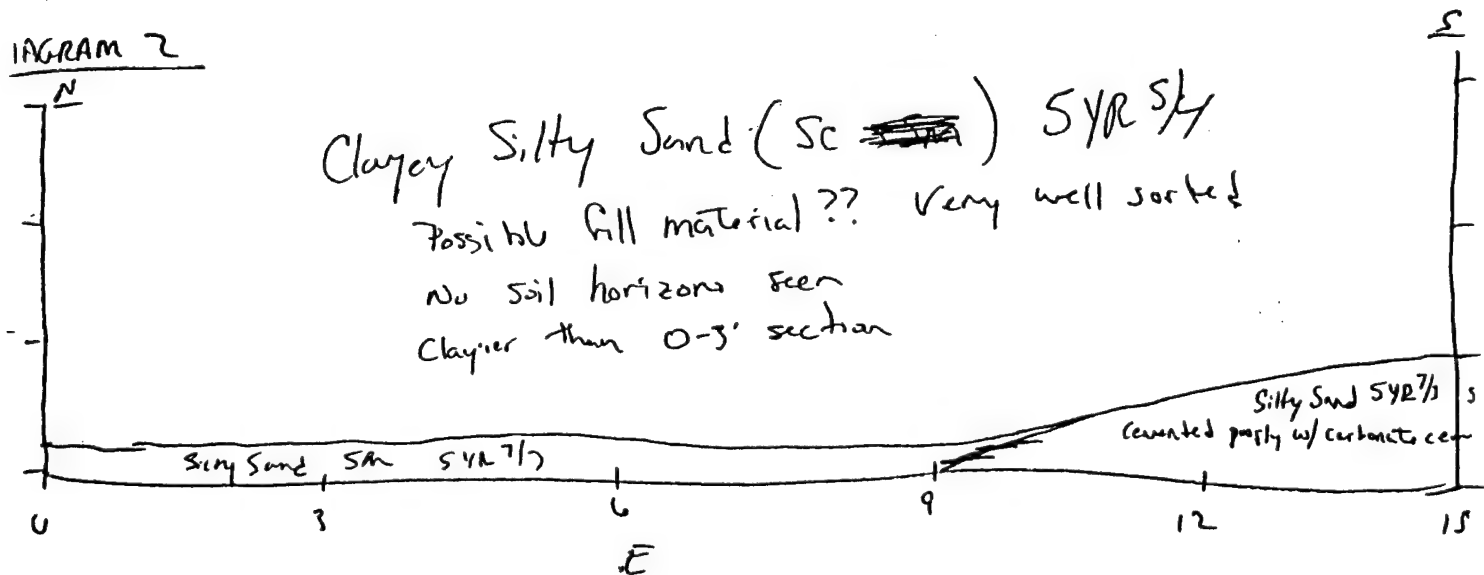
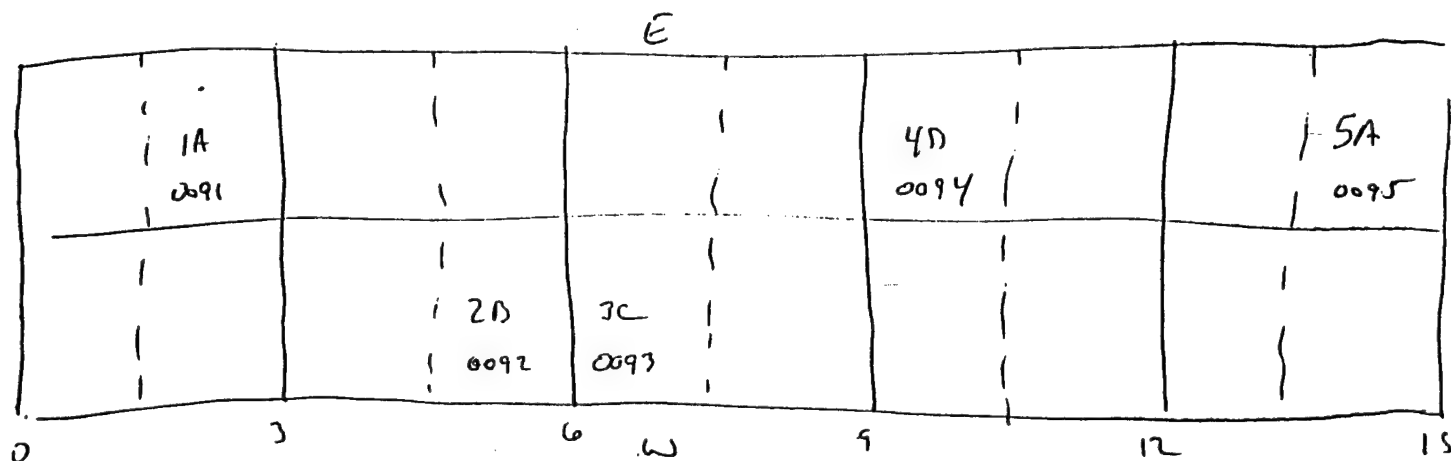
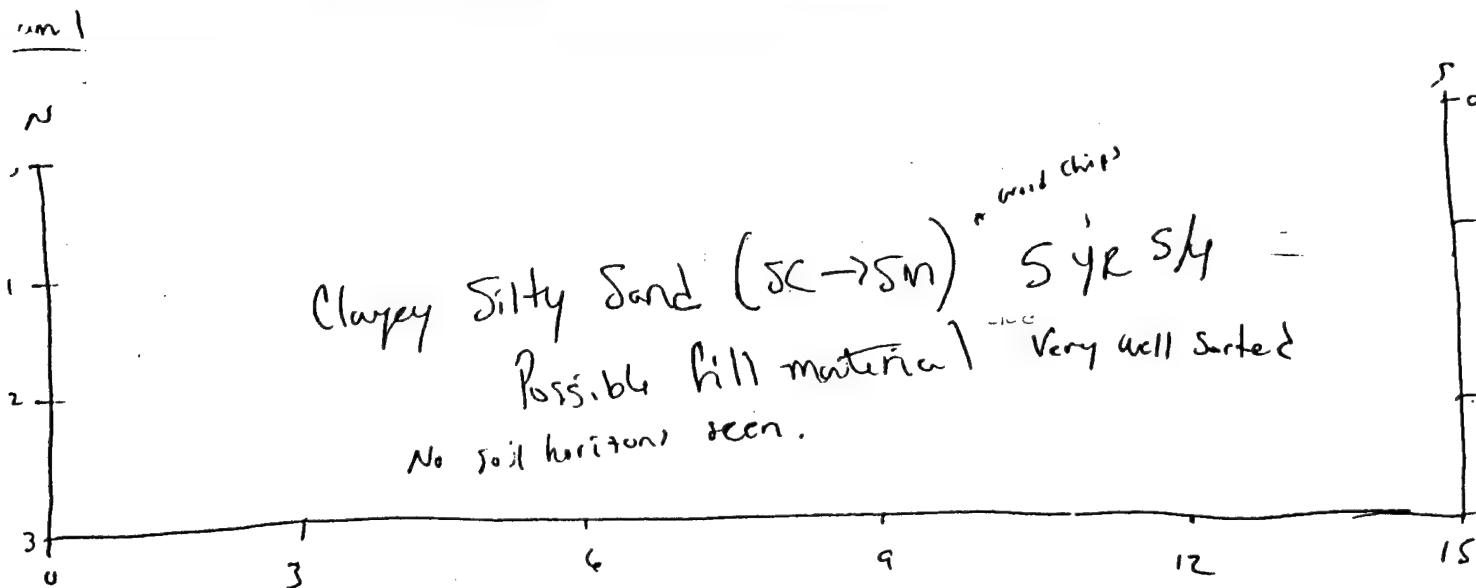
LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

•• SAMPLE METHODS  
A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

- CONSTRUCTION METHODS
  - R - ROTARY (STATE ROTARY METHOD)
  - A - AUGERED OR BORED
  - C - CABLE TOOL
  - D - DUG
  - J - JETTED

- P - AIR PERCUSSION  
T - TRENCHING  
B- BOREHOLE  
O - OTHER

TECHNICAL REVIEWER: (SIGNATURE/DATE)



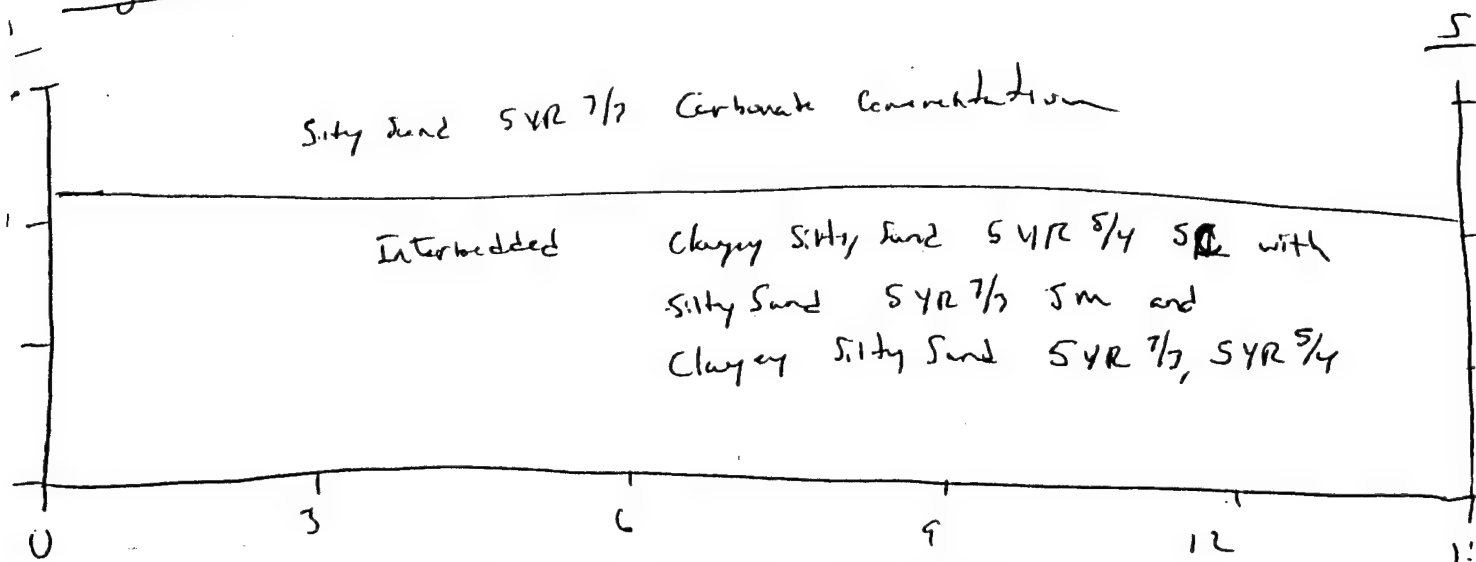
DATE: 9/9/94

LOCATION ID: 0091-0110

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

LITHOLOGIC LOG (FOR TRENCH; MAKE ADDITIONAL COPIES)											
DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
					SEE BACK						

Diagram 3



		2D 0102		$\frac{8}{2}$	3A 0103				
K 0101							4B 0104	5C 0105	

DATE: 9/12/97

BORE HOLE DEPTH (FT): 62

CONSTRUCTION METHOD: 1

COMMENTS: Geophysical Area 2. Trenching Area 3. E-W Trench  
From 20E, 415N to 5E, 415N

FIELD REPRESENTATIVE(S): Pkm JJ

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

[illegible]

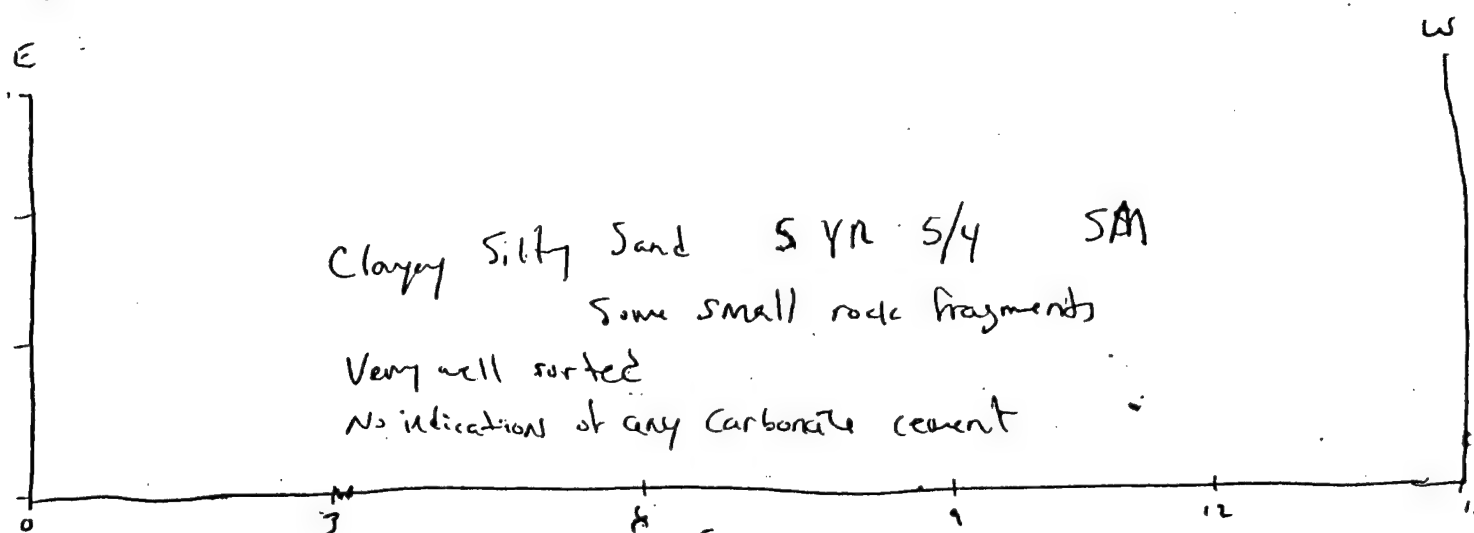
- **CONSTRUCTION METHODS**

**R - ROTARY (STATE ROTARY METHOD)**  
**A - AUGERED OR BORED**  
**C - CABLE TOOL**  
**D - DUG**  
**J - JETTED**

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

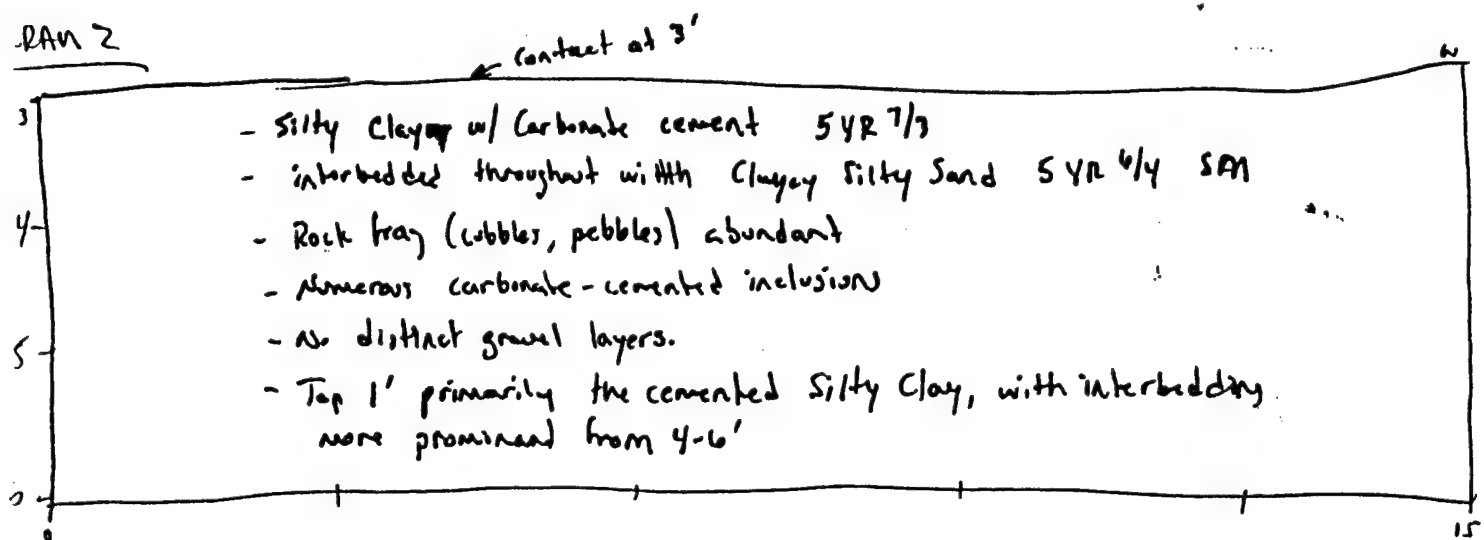
TECHNICAL REVIEWER: (SIGNATURE/DATE)





1A 0111	2D 0117		3A 0114	4D 0114		5A 0115
1C 0116		2B 0112	3C 0117		4B 0119	5C 0120

PAN 2



1D 0126		2A 0127	3D 0127		4A 0124	5D 0130
	1B 0121	2C 0122		3B 0128	4C 0129	5B 0125

B-2D

← Roger Buetel recommendation

## SOIL BORING LOG

SITE ID: KETLD154 DATE: 7/7/94  
 LOCATION ID: 0166-0185 Trenching Area 4 BORE HOLE DEPTH (FT): 6  
1st half  
 BORE HOLE DIAMETER (IN): N/A CONSTRUCTION METHOD: T  
 LOCATION DESCRIPTION: Trenching Area 4 N/S Trench half  
330 E, 315 N → 330 E, 300 N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM, JCI

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0-3'	0166-0170	H	→ Diagram 1 on back	76-0180							
3-6'	0171-0175	H	→ Diagram 2 on back	+ 0181-0185							

• **SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• **CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

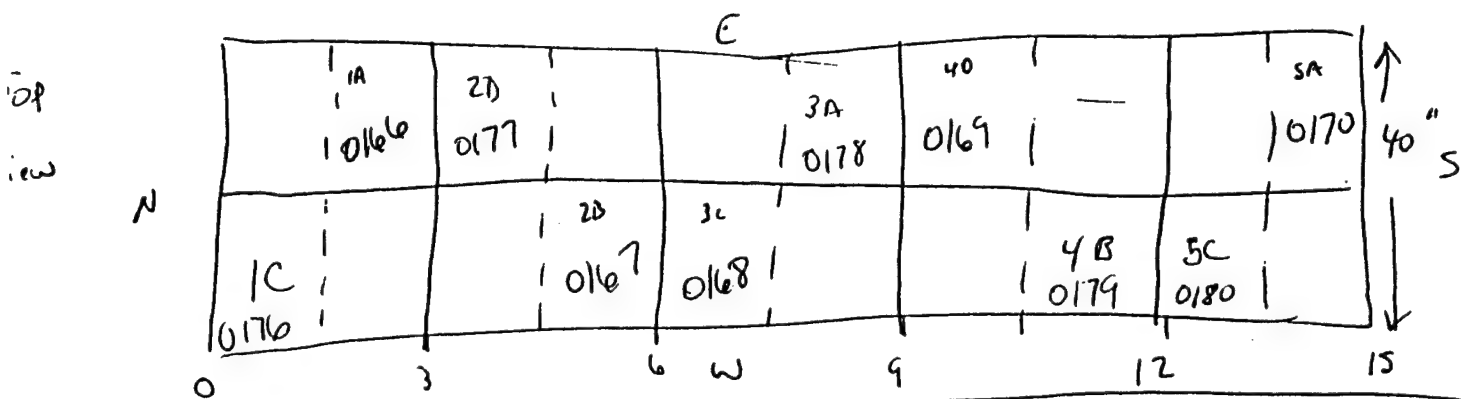
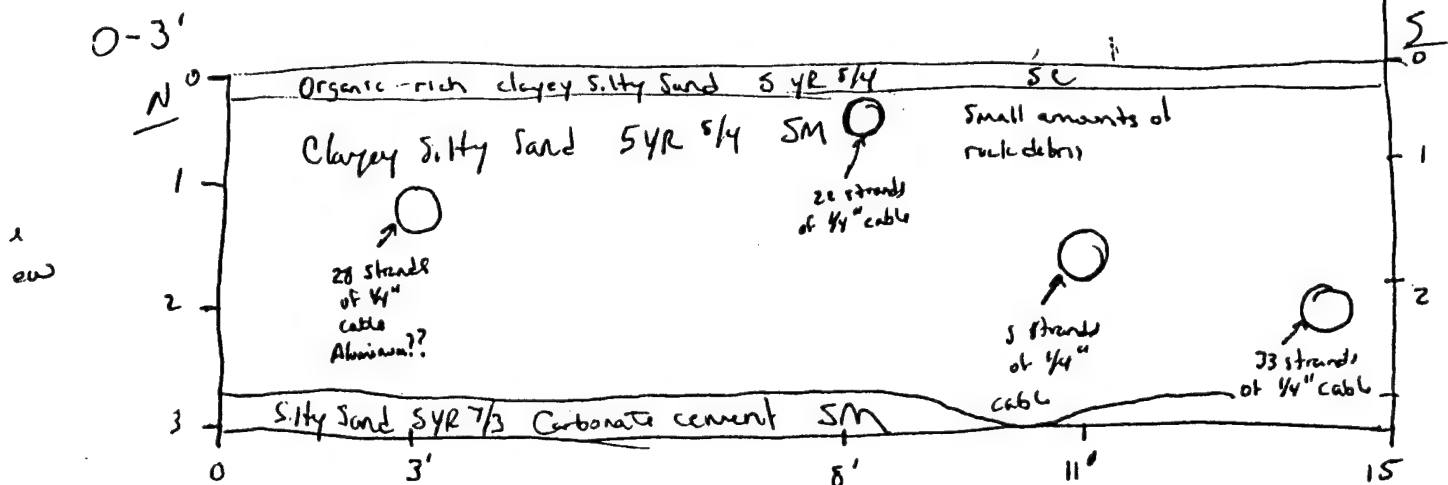
P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 7/7/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

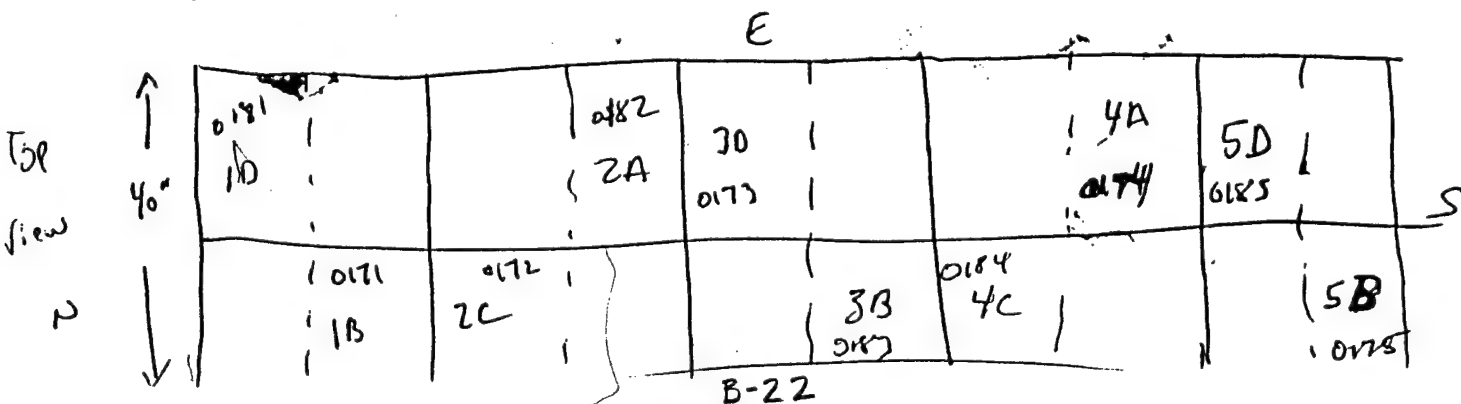
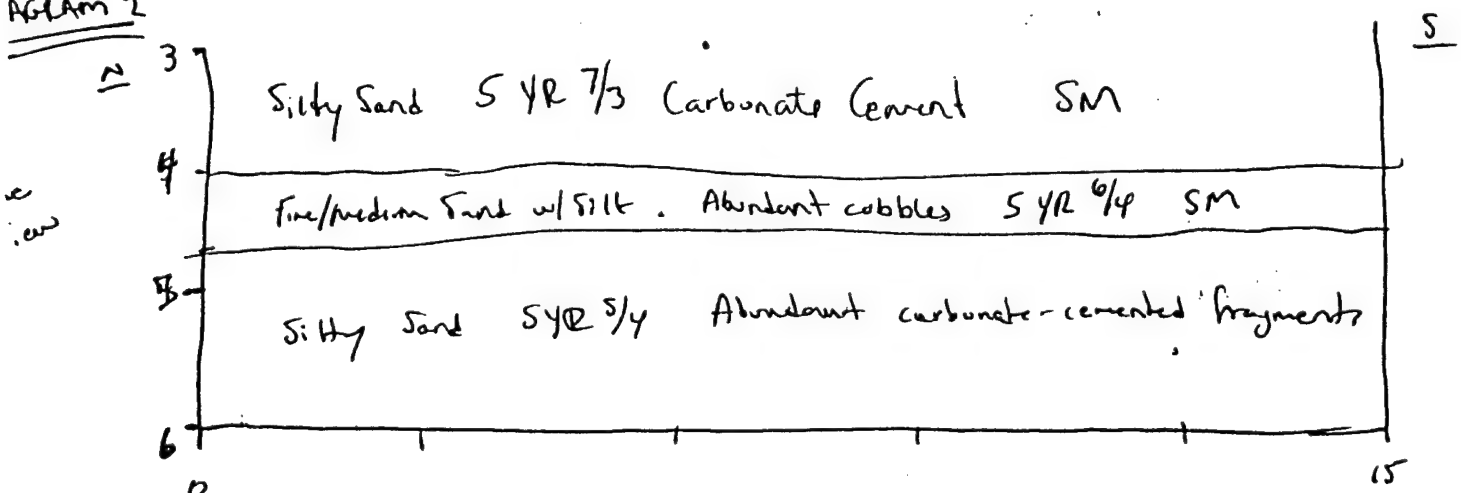
TECHNICAL REVIEWER: (SIGNATURE/DATE)

# DIAGRAM 1

All cables are for  
instrumentation only



## Diagram 2



**SITE ID:** KETLD 154 **DATE:** 9/8/94

**LOCATION ID:** Trenching Area 4 01816 - 0205 **BORE HOLE DEPTH (FT):** 6

**BORE HOLE DIAMETER (IN):** N/A **CONSTRUCTION METHOD:** T

**LOCATION DESCRIPTION:** Geophysical Area 4, Trenching Area 4 EW Trench  
from 330E, 300W to 315E, 300W

**COMMENTS:** \_\_\_\_\_

**FIELD REPRESENTATIVE(S):** PKM, JJ

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

[illegible]

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O/OTHER

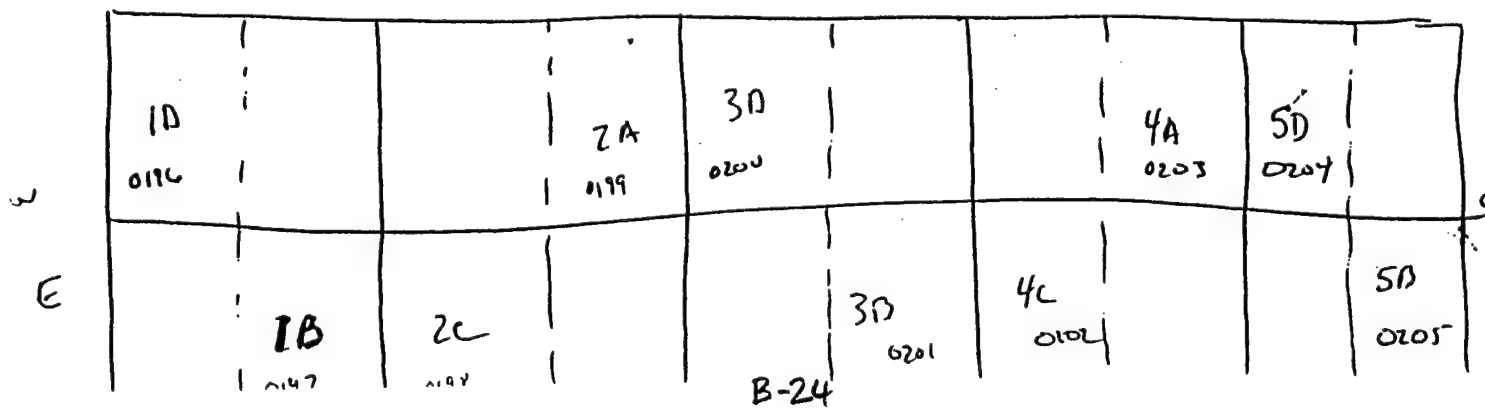
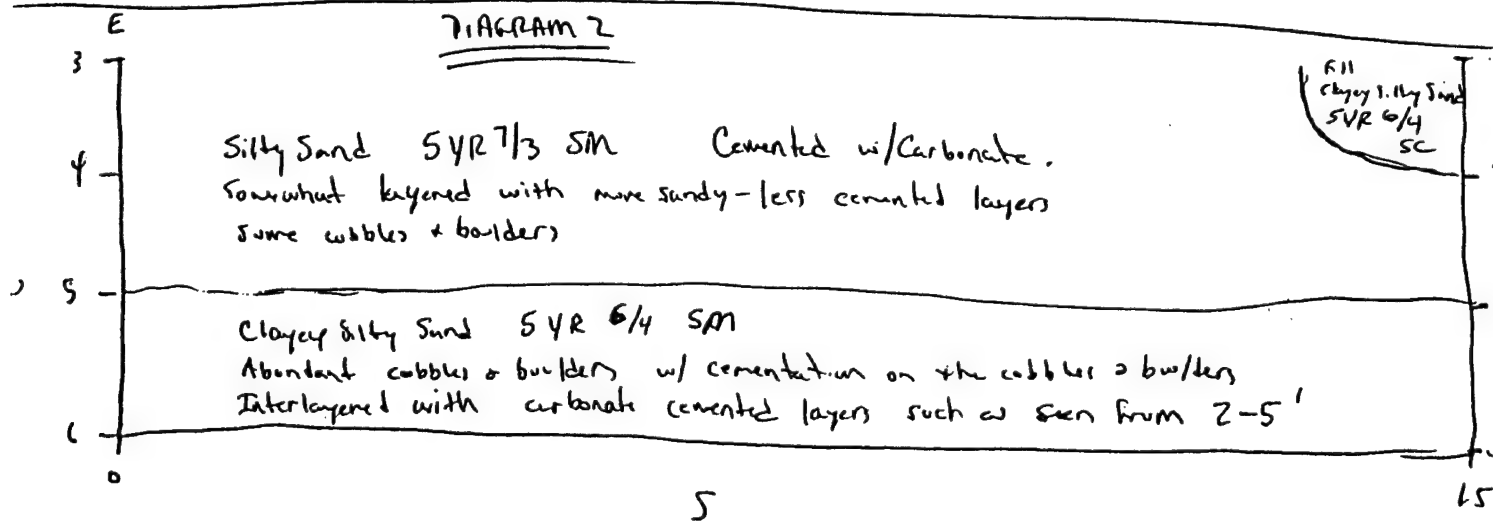
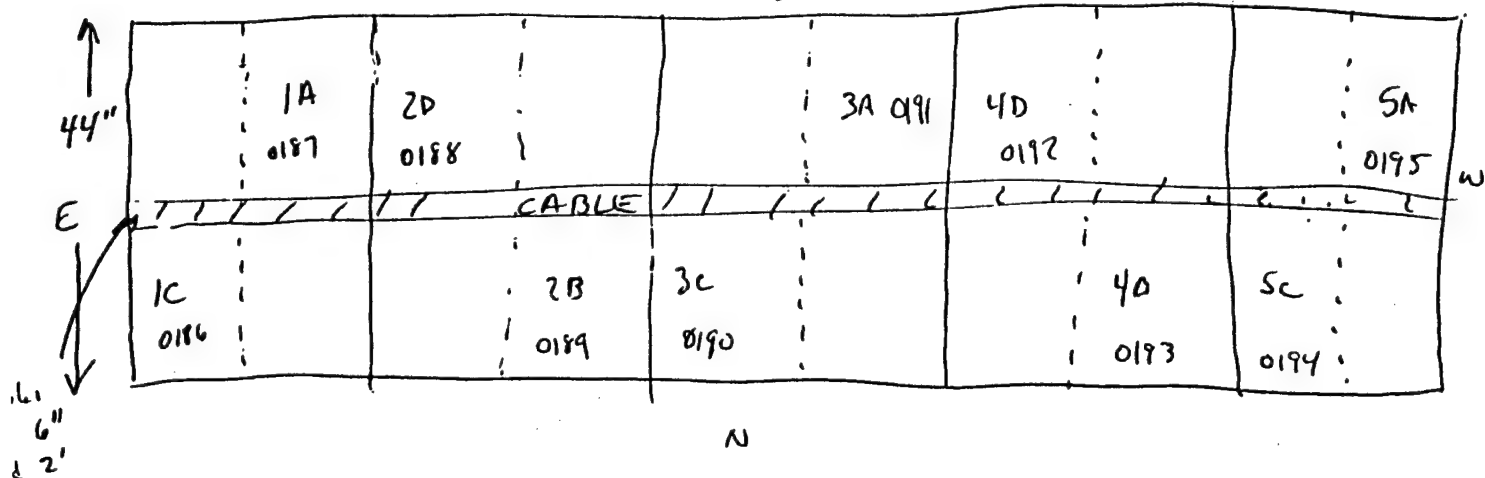
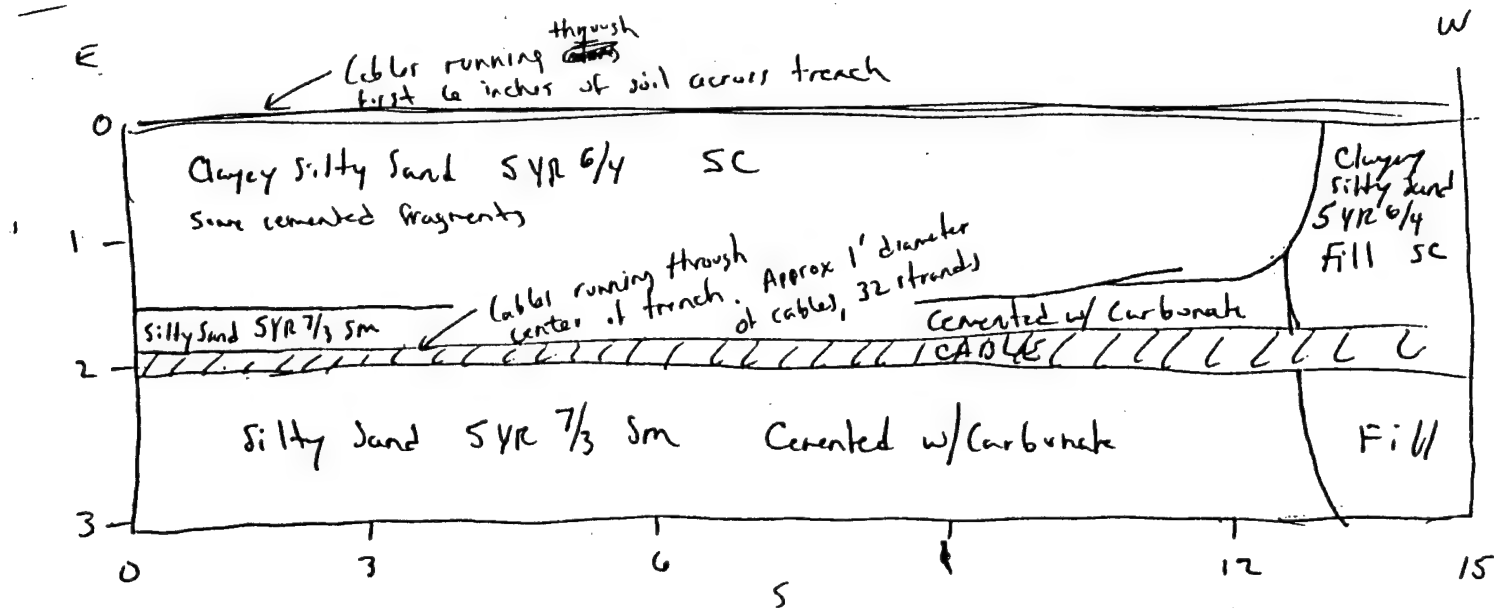
- CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B- BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/24/94 8/25/94 AK  
 LOCATION ID: 0081 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: In depression near trenching area 2. About 100' west of road.  
 COMMENTS: In depression  
 FIELD REPRESENTATIVE(S): SRG

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5	5.2			100	clayey silty sand 5YR 4/4	SC				↓	
1.0	5.2			100	silty sand 5YR 4/4	SM					
1.5				100	clayey silty sand 5YR 4/4	SC					
2.0		0001	A	100	clayey silty sand 5YR 4/4	SC				pass. wood fragment	
2.5				100	silty sand w/ pebbles 5YR 4/4	SM				more wood? white grains	
3.0				100	silty sand w/ white grains 5YR 4/4	SM				"	
3.5				100	silty sand 5YR 4/4	SM				"	
4.0				100	silty sand 5YR 4/4	SM				"	
4.5				100	silty sand 5YR 4/4	SM				"	
5.0				100	silty sand 5YR 4/4	SM				white grains & wood chips	
5.5				100	silty sand w/ pebbles 5YR 4/4	SM					
6.0				100	silty sand w/ pebbles 5YR 4/4	SM					

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

AK 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/25  
 LOCATION ID: 0282 0082 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: In depression near trenching Area 2. A 100' west of Road  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 4/4 clayey silty sand	ML					
1.0					7.5 YR 4/4 clayey silty sand	ML					
1.5					7.5 YR 4/4 clayey silty sand	ML					
2.0					7.5 YR 4/4 clayey silty sand	ML					
2.5					7.5 YR 4/4 clayey silty sand	ML					
3.0					7.5 YR 4/4 clayey silty sand	ML					
3.5					7.5 YR 4/4 clayey silty sand	ML					
4.0					7.5 YR 4/4 clayey silty sand	ML					
4.5					7.5 YR 4/4 clayey silty sand	ML					
5.0					7.5 YR 4/4 clayey silty sand	ML					
5.5					7.5 YR 4/4 clayey silty sand	ML					
6.0					7.5 YR 4/4 clayey silty sand	ML					
6.5											
6.0											

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

WNR 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/25  
 LOCATION ID: 0083 BORE HOLE DEPTH (FT): 6-0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Near trenching area 2 ~ 40' W of road  
Grid coordinates ~ 140E, 180N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): SRG

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
7.5					Silty sand w/ roots & organic mat. 7.5 YR 5/4 (BL)	SM				Dry	
10					Silty sand w/ some pebbles 7.5 YR 5/4	SM				↓	
15					Silty sand w/ some pebbles 7.5 YR 5/4	SM					
20		0081	A		Silty sand w/ some pebbles 7.5 YR 5/4	SM					
25					Silty sand w/ some pebbles 7.5 YR 5/4	SM				Some white grains	
30					Silty sand w/ pebbles 7.5 YR 5/4	SM					
35					Silty sand w/ pebbles 7.5 YR 5/4	SM					
40					Silty sand w/ pebbles 7.5 YR 5/4	SM					
45					Silty sand w/ pebbles 7.5 YR 5/4	SM				pieces of ply. wood	
5.0					Silty sand w/ pebbles 7.5 YR 5/4	SM				piece of wire	
5.5					Silty sand w/ pebbles 7.5 YR 5/4	SM				white grains	
6.0					Silty sand w/ some pebbles 7.5 YR 5/4	SM				wood frags	

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

SRG 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/25  
 LOCATION ID: 0084 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 140E, 180N vicinity near Trench Area 2  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Jeff Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 5/4 Silty Sand						
1.0					7.5 YR 5/4 Silty Sand						
1.5					10 YR 5/4 Silty Sand						
2.0					10 YR 5/4 Silty Sand w/pebbles						
2.5		000	A	100%	10 YR 5/4 Silty Sand w/pebbles						
3.0					10 YR 5/4 Silty Sand w/pebbles						
3.5					10 YR 5/4 Silty Sand w/pebbles						
					Pieces of wood.						
4.0					10 YR 5/4 Silty Sand w/pebbles						
4.5					10 YR 5/4 Silty Sand w/pebbles						
5.0					10 YR 5/4 Silty Sand w/pebbles						
5.5					10 YR 5/4 Silty Sand w/pebbles						
6.0					10 YR 5/4 Silty Sand w/pebbles						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MR - 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/25

LOCATION ID: 0085 BORE HOLE DEPTH (FT): \_\_\_\_\_

BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: NEAR Geophysical Anomaly AT 220 N, 210 E

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					2.5 YR 5/4 Silty Sand						
1.0					7.5 YR 5/4 Silty Sand						
1.5					7.5 YR 5/4 Silty Sand						
2.0					7.5 YR 5/4 Silty Sand						
2.5					7.5 YR 5/4 Silty Sand						
3.0					7.5 YR 5/4 Silty Sand						
3.5					7.5 YR 5/4 Silty Sand						
4.0					7.5 YR 5/4 Silty Sand						
4.5					7.5 YR 5/4 Silty Sand						
5.0					7.5 YR 5/4 Silty Sand						
5.5					7.5 YR 5/4 Silty Sand						
6.0					7.5 YR 5/4 Silty Sand						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

MM 8/25/94  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KTRLD154 DATE: 8/25/94  
 LOCATION ID: 0086 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Near 220N 210E of Geophysical area 1. Just east of road.  
 COMMENTS: Sample at 13:50  
 FIELD REPRESENTATIVE(S): Plum

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	Silty Sand S YR S/4	SM					
6				100	Silty Sand S YR S/4	SM					
7				100	Silty Sand S YR S/4 w/ small chunks	SM					
8				100	Silty Sand S YR S/4 some cement	SM					
9				100	Silty Sand S YR S/4 some cement	SM					
10				100	Silty Sand S YR S/4 some cement	SM					
11				100	Silty Sand S YR S/4 some cement	SM					
12				100	Silty Sand S YR S/4	SM					
13				100	Silty Sand S YR S/4	SM					
14				100	Silty Sand S YR S/4	SM					
15				100	Silty Sand S YR S/4	SM					
16				100	Silty Sand S YR S/4	SM					
17				100	Silty Sand S YR S/4	SM					
18				100	Silty Sand S YR S/4	SM					
19				100	Silty Sand S YR S/4	SM					
20				100	Silty Sand S YR S/4	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Jack. Min 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KR7LD 154 DATE: 8/25

LOCATION ID: 0087 BORE HOLE DEPTH (FT): \_\_\_\_\_

BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: \_\_\_\_\_

LOCATION DESCRIPTION: In Depression of Trenching Area 1

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0-5					10YR 4/3 Silty clayey sand					moist	
1.0					10YR 4/3 silty clayey sand						
1.5					10YR 4/3 silty clayey sand						
2.0					10YR 4/3 Silty clayey sand						
2.5					10YR 4/3 Silty clayey sand						
3.0					10YR 4/3 Silty clayey sand						
3.5					10YR 4/3 Silty clayey sand						
4.0					10YR 4/3 Silty clayey sand						
4.5					10YR 4/3 Silty clayey sand						
5.0					10YR 4/3 Silty clayey sand						
5.5					10YR 4/3 Silty clayey sand						
6.0					10YR 4/3 silty clayey sand						

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/25/94  
 LOCATION ID: 0088 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: In depression near trenching area 1 (Geophys. Area 1)  
 COMMENTS: Start at @ 1410 Sample at 1445  
 FIELD REPRESENTATIVE(S): Pkon

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand SYR 3/4	SC				Wet Core wet core ↓	
1.0				100	Clayey Silty Sand SYR 3/4	SC					
1.5				100	Clayey Silty Sand SYR 3/4	SC					
2.0				100	Clayey Silty Sand SYR 3/4	SC					
2.5		0001	A	100	Clayey Silty Sand SYR 3/4	SC					
3.0				100	Clayey Silty Sand SYR 3/4	SC					
3.5				100	Clayey Silty Sand SYR 3/4	SC					
4.0				100	Clayey Silty Sand SYR 3/4	SC					
4.5				100	Clayey Silty Sand SYR 3/4	SC					
5.0				100	Clayey Silty Sand SYR 3/4	SC					
5.5				100	Clayey Silty Sand SYR 3/4	SC					
6.0				100	Clayey Silty Sand SYR 3/4	SC					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Pkon 8/25/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL D 154DATE: 8/25LOCATION ID: AS 0090 0089

BORE HOLE DEPTH (FT): \_\_\_\_\_

BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: 380E, ON

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 4/4 Silty Sand						
1.0					7.5 YR 4/4 Silty Sand						
1.5					7.5 YR 4/4 Silty Sand						
2.0					7.5 YR 4/4 Silty Sand						
2.5					7.5 YR 4/4 Silty Sand						
3.0					7.5 YR 4/4 Silty Clayey Sand						
3.5					7.5 YR 4/4 Silty Clayey Sand						
4.0					7.5 YR 4/4 Silty Clayey Sand						
4.5					7.5 YR 4/4 Silty Clayey Sand						
5.0					7.5 YR 4/4 Silty Clayey Sand						
5.5					7.5 YR 4/4 Silty Clayey Sand						
6.0					7.5 YR 4/4 Silty Clayey Sand						

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
MMJ 8/25/96

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154DATE: 8/25/94LOCATION ID: 0090BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: 360E, 40N of geophysical area 1COMMENTS: Start 1935 Sample 1550FIELD REPRESENTATIVE(S): Ken

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand 5YR 3/4	SC					
1				100	Clayey Silty Sand 5YR 3/4	SC					
1.5				100	Clayey Silty Sand 5YR 3/4	SC					
2.0				100	Clayey Silty Sand 5YR 3/4	SL					
2.5				100	Clayey Silty Sand 5YR 3/4	SC					
3.0				100	Clayey Silty Sand 5YR 3/4	SL					
3.5				100	Clayey Silty Sand 5YR 3/4	SC					
4.0				100	Clayey Silty Sand 5YR 3/4	SL					
4.5				100	Clayey Silty Sand 5YR 3/4	SL					
5.0				100	Clayey Silty Sand 5YR 3/4	SC					
5.5				100	Clayey Silty Sand 5YR 3/4	SL					
6.0				100	Clayey Silty Sand 5YR 3/4	SL					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

Ken 8/25/94  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/15/94  
 LOCATION ID: 0131 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2 Crater at OE, 230N  
North Side of Crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Plum

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 7/3 - 5YR 6/4	SC					
1.0				100	Clayey Silty Sand 5YR 7/4	SC					
1.5				110	Clayey Silty Sand 5YR 6/4	SC				Some black staining	
2.0				100	Clayey Silty Sand 5YR 6/4	SC					
2.5				100	Clayey Silty Sand 5YR 7/3	SC				Cementation	
3.0		0001	A	100	Clayey Silty Sand 5YR 6/4	SC				Some cementation	
3.5				100	Clayey Silty Sand 5YR 6/4	SC					
4.0				100	Clayey Silty Sand 5YR 6/4	SC					
4.5				100	Clayey Silty Sand 5YR 6/4	SC					
5.0				100	Clayey Silty Sand 5YR 6/4	SC				Some cementation	
5.5				100	Clayey Silty Sand 5YR 6/4	SC				Some cementation	
6.0				100	Clayey Silty Sand 5YR 6/4	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: \_\_\_\_\_

DATE: 9/15LOCATION ID: 0132BORE HOLE DEPTH (FT): 6.0'BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophys Area 2, Inside Crater wall  
OE, 210N

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 6/6 Clayey Silty Sand	SM					
1.0					7.5YR 6/6 7/4 Clayey Silty Sand	SM					
1.5					7.5YR 7/4 Clayey Silty Sand	SM					
2.0					7.5YR 7/4 Clayey Silty Sand	SC					
2.5					7.5YR 7/4 Clayey Silty Sand	SC					
3.0					7.5YR 7/4 Clayey Silty Sand	SC					
3.5					7.5YR 7/4 Clayey Silty Sand	SM					
4.0					7.5YR 7/4 Clayey Silty Sand	SC					
4.5					7.5YR 7/4 Clayey Silty Sand	SM					
5.0					7.5YR 7/4 Clayey Silty Sand	SM					
5.5					7.5YR 7/4 Clayey Silty Sand	SM					
6.0					7.5YR 7/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
WJ 9/15

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KATL0154 DATE: 9/15/94  
 LOCATION ID: 003 BORE HOLE DEPTH (FT): 3  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2: Near bunker on south side.  
~ 240N, 120E  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): pkw

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	clayey Silty Sand <del>54</del> 5Y 5/4	SM					
1.2				100	clayey Silty Sand 5YR 5/4	SM					
1.0				100	clayey Silty Sand 5YR 5/4	SM					
2.2				100	clayey Silty Sand 5YR 5/4	SM					
2.5		0001	A	100	clayey Silty Sand 5YR 5/4	SM					
3.0				100	clayey Silty Sand 5YR 5/4	SM					
					Obstruction at 3'						
					Stop & Sample						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

pkw 9/15/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 9/15  
 LOCATION ID: 0134 BORE HOLE DEPTH (FT): 6.0'  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2, 160 E, 260 N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 Clayey Silty Sand	SM					
1.0					7.5 YR 5/4 Clayey Silty Sand	SM					
1.5					7.5 YR 5/4 Clayey Silty Sand	SM					
2.0					7.5 YR 5/4 Clayey Silty Sand	SM					
2.5					7.5 YR 5/4 Clayey Silty Sand	SM					
3.0					7.5 YR 5/4 Clayey Silty Sand	SM					
3.5					7.5 YR 5/4 Clayey Silty Sand	SM					
4.0					7.5 YR 5/4 Clayey Silty Sand	SM					
4.5					7.5 YR 5/4 Clayey Silty Sand	SM					
5.0					7.5 YR 5/4 Clayey Silty Sand	SM					
5.5					7.5 YR 5/4 Clayey Silty Sand	SM					
6.0					7.5 YR 5/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Johnson 9/15

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KATLD154DATE: 9/15/94LOCATION ID: 0135BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 2 190N, 380E crater. West Side  
Inside crater rim

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Pkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand sm 5YR 5/4	sm				Rock Frags.	
6.0				100	Clayey Silty Sand sm 5YR 5/4	sm					
11.5				100	Clayey Silty Sand 5YR 5/4	sm					
2.0				100	Clayey Silty Sand 5YR 5/4	sm				Rock Frags	
2.5		0001	A	100	Clayey Silty Sand 5YR 5/4	sm				PVC pipe	
3.0				100	Clayey Silty Sand 5YR 5/4	sm					
3.5				100	Clayey Silty Sand 5YR 5/4	sm				Some cementation	
4.0				100	Clayey Silty Sand 5YR 5/4	sm				"	
4.5				100	Clayey Silty Sand 5YR 7/3	sm				Cementation	
5.0				100	Silty Sand 5YR 7/3	sm				"	
5.5				100	Silty Sand 5YR 7/3	sm				"	
6.0				100	Clayey Silty Sand 5YR 6/4	sm					

• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Pkm 9/15/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD 154 DATE: 9/15  
 LOCATION ID: 0136 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2, 390 E, 210 N  
on upper edge of cross north side  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/6 Clayey Silty Sand	SA					
1.0					7.5 YR 6/6 Clayey Silty Sand	SA					
1.5					7.5 YR 6/6 Clayey Silty Sand	SA					
2.0					7.5 YR 6/6 Clayey Silty Sand	SA					
2.5		0001	A		7.5 YR 4/4 Clayey Silty Sand	SA					
3.0					7.5 YR 4/4 Clayey Silty Sand	SA					
3.5					7.5 YR 4/4 Clayey Silty Sand	SA					
4.0					7.5 YR 4/4 Clayey Silty Sand	SA					
4.5					7.5 YR 4/4 Clayey Silty Sand	SA					
5.0					7.5 YR 4/4 Clayey Silty Sand	SA					
5.5					7.5 YR 4/4 Clayey Silty Sand	SA					
6.0					7.5 YR 4/4 Clayey Silty Sand	SA					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Johnson 9/15  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: RTD 154 DATE: 9/15/94  
 LOCATION ID: 0137 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2 Approx 190N, 410E  
On eastern side of crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand SYR 6/4	Sm					
1.0				100	Clayey Silty Sand SYR 6/4	Sm					
1.5				100	Clayey Silty Sand SYR 6/4	Sm					
2.0				100	Clayey Silty Sand SYR 6/4	Sm					
2.5				100	Clayey Silty Sand SYR 6/4	Sm					
3.0				100	Clayey Silty Sand SYR 6/4	Sm					
3.5				100	Clayey Silty Sand SYR 6/4	Sm					
4.0				100	Clayey Silty Sand SYR 6/4	Sm					
4.5				100	Clayey Silty Sand SYR 6/4	Sm					
5.0				100	Clayey Silty Sand SYR 6/4	Sm					
5.5				100	Clayey Silty Sand SYR 7/4	Sm					
6.0				100	Silty Sand SYR 7/3	Sm					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

R. L. Mier 9/15/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 9/15  
 LOCATION ID: 0138 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2, 400E, 170 N  
east side upper edge of crater South Side  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	2.5 YR 6/3 Clayey Silty Sand	SA					
1.0					7.5 YR 6/3 Clayey Silty Sand	SA					
1.5					2.5 YR 6/3 Clayey Silty Sand	SA					
2.0					7.5 YR 6/3 Clayey Silty Sand	SA					
2.5		0001	A		7.5 YR 6/4 Clayey Silty Sand	SA					
3.0					7.5 YR 6/4 Clayey Silty Sand	SA					
3.5					7.5 YR 6/4 Clayey Silty Sand	SA					
4.0					7.5 YR 6/4 Clayey Silty Sand	SA					
4.5					7.5 YR 6/4 Clayey Silty Sand	SA					
5.0					7.5 YR 6/4 Clayey Silty Sand	SA					
5.5					7.5 YR 6/4 Clayey Silty Sand	SA					
6.0					7.5 YR 6/4 Clayey Silty Sand	SA					

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 9/15  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLD154 DATE: 9/15/94  
 LOCATION ID: 0139 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2. At NE corner of grid.  
Approx 50' East of NE corner. SW side of depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand S4R 7/4	SC					
1.0				100	clayey silty sand S4R 7/4	SC					
1.5				100	clayey silty sand S4R 5/4	SC					
2.2				100	clayey silty sand S4R 5/4	SC					
2.5				100	clayey silty sand S4R 5/4	SC					
3.0				100	clayey silty sand S4R 5/4	SC					
3.5				100	clayey silty sand S4R 5/4	SC					
4.2				100	clayey silty sand S4R 5/4	SC					
4.5				100	clayey silty sand S4R 5/4	SC					
5.0				100	clayey silty sand S4R 5/4	SC					
5.5				100	clayey silty sand S4R 5/4	SC					
6.0				100	clayey silty sand S4R 5/4	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: CRILD 154 DATE: 9/15  
 LOCATION ID: 0140 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2, Approx 50' East of NE corner of Grid. Southern edge of small depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 5/4 clayey silty sand	SN					
1.0					7.5YR 5/4 clayey silty sand	SN					
1.5					7.5YR 5/4 clayey silty sand	SN					
2.0					7.5YR 5/4 clayey silty sand	SN					
2.5		0001	A		7.5YR 5/4 clayey silty sand	SN					
3.0					7.5YR 5/4 clayey silty sand	SC					
3.5					7.5YR 5/4 clayey silty sand	SC					
4.0					7.5YR 4/4 clayey silty sand	SC					
4.5					7.5YR 4/4 clayey silty sand	SC					
5.0					7.5YR 4/4 clayey silty sand	SC					
5.5					7.5YR 6/4 clayey silty sand	SC					
6.0					7.5YR 6/4 clayey silty sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/15/94  
LOCATION ID: 0141 BORE HOLE DEPTH (FT): 6  
BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
LOCATION DESCRIPTION: Geophysical Area 2 50-75' east of NE corner of grid  
On NE side of large depression  
COMMENTS: \_\_\_\_\_  
FIELD REPRESENTATIVE(S): PKM

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand S4R S/4	SC					
1.0				100	Clayey Silty Sand S4R S/4	SC					
1.5				100	Clayey Silty Sand S4R S/4	SC					
2.0				100	Clayey Silty Sand S4R S/4	SC					
2.5				100	Clayey Silty Sand S4R S/4	SC					
2.0				100	Clayey Silty Sand S4R S/4	SC					
3.5		0001	A	100	Clayey Silty Sand S4R S/4	SC					
3.0				100	Clayey Silty Sand S4R S/4	SC					
3.5				100	Clayey Silty Sand S4R S/4	SC					
4.0				100	Clayey Silty Sand S4R S/4	SC					
4.5				100	Clayey Silty Sand S4R S/4	SC					
5.0				100	Clayey Silty Sand S4R S/4	SC					
5.5				100	Clayey Silty Sand S4R S/4	SC					
6.0				100	Clayey Silty Sand S4R S/4	SC					

**SAMPLE METHODS**

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

**CONSTRUCTION METHODS**

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: PKM 9/15/94 TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD154 DATE: 9/15  
 LOCATION ID: 0143 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2, Approx 50' East of NE Corner, NE Corner  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	7.5 YR 4/4 Clayey Silty Sand	SC					
1.0					7.5 YR 4/4 Clayey Silty Sand	SC					
1.5					7.5 YR 4/4 Clayey Silty Sand	SC					
2.0					7.5 YR 4/4 Clayey Silty Sand	SC					
2.5					7.5 YR 4/4 Clayey Silty Sand	SC					
3.0					7.5 YR 4/4 Clayey Silty Sand	SC					
3.5					7.5 YR 4/4 Clayey Silty Sand	SC					
4.0					7.5 YR 4/4 Clayey Silty Sand	SC					
4.5					7.5 YR 4/4 Clayey Silty Sand	SC					
5.0					7.5 YR 4/4 Clayey Silty Sand	SC					
5.5					7.5 YR 4/4 Clayey Silty Sand	SC					
6.0					7.5 YR 4/4 Clayey Silty Sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM - 9/15  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETL0154 DATE: 9/16/94  
 LOCATION ID: 0143 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area? Desert Fire Campy at ON, 40E of gill  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand 5YR 5/4	SM				rock debris	
1.0				100	clayey silty sand 5YR 5/4	SM				"	
1.5				100	clayey silty sand 5YR 5/4	SM					
2.0				100	clayey silty sand 5YR 5/4	SM				rock debris	
2.5				100	clayey silty sand 5YR 5/4	SM				"	
3.0				100	clayey silty sand 5YR 5/4	SM				"	
3.5				100	clayey silty sand 5YR 5/4	SM				"	
4.0				100	clayey silty sand 5YR 5/4	SM				"	
4.5				100	clayey silty sand 5YR 5/4	SM				"	
5.0				100	clayey silty sand 5YR 5/4	SM				"	
5.5				100	clayey silty sand 5YR 5/4	SM				"	
6.0				100	clayey silty sand 5YR 5/4	SM				"	

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION

T - TRENCHING

B - BOREHOLE

O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRWD154 DATE: 9/16  
 LOCATION ID: 0143<sup>66</sup> 0144 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): \_\_\_\_\_ CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2 ON, 40E, EAST  
Side of two "wells"  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 5/4 Clayey Silty Sand	SC					
1.0					7.5YR 5/4 Clayey Silty Sand	SC					
1.5					7.5YR 5/4 Clayey Silty Sand	SC					
2.0					7.5YR 5/4 Clayey Silty Sand	SC					
2.5					7.5YR 5/4 Clayey Silty Sand	SC					
3.0					7.5YR 6/4 Clayey Silty Sand	SC					
3.5					7.5YR 7/4 Clayey Silty Sand	SC					
4.0					7.5YR 7/4 Clayey Silty Sand	SC					
4.5					7.5YR 7/4 Clayey Silty Sand	SC					
5.0					7.5YR 7/4 Clayey Silty Sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 9/16  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETD154 DATE: 9/16/94  
 LOCATION ID: 0145 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2. Approx 100' SW of grid  
In large trench. Next to well casing. Southernmost of 2 samples  
in vicinity  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Plum

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand SYR 5/4	SM				rock debris	
1.2				100	Clayey Silty Sand SYR 5/4	SM				"	
1.2				100	Clayey Silty Sand SYR 5/4	SM					
2.2				100	Clayey Silty Sand SYR 5/4	SM					
2.5				100	Clayey Silty Sand SYR 5/4	SM					
3.2			A	100	Clayey Silty Sand SYR 5/4	SM					
3.5				100	Clayey Silty Sand SYR 5/4	SM					
4.0				100	Clayey Silty Sand SYR 5/4	SM					
4.5				100	Clayey Silty Sand SYR 5/4	SM				rock debris	
5.2				100	Clayey Silty Sand SYR 5/4	SM				"	
5.5				100	Clayey Silty Sand SYR 5/4	SM				"	
6.0				100	Clayey Silty Sand SYR 5/4	SM				"	

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Plum 9/16/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154DATE: 9/16LOCATION ID: 0146BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 2, Approx 100' South west of Southwest corner of section. North end ofCOMMENTS: Two wells in disturbed Gravel.FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 7/4 Clayey Silty Sand	SC					
1.0					7.5 YR 7/4 Clayey Silty Sand	SC					
1.5					7.5 YR 7/4 Clayey Silty Sand	SC					
2.0					7.5 YR 7/4 Clayey Silty Sand	SC					
2.5			A		7.5 YR 7/4 Clayey Silty Sand	SC					
3.0					7.5 YR 7/4 Clayey Silty Sand	SC					
3.5					7.5 YR 8/4 Clayey Silty Sand	SC					
4.0					7.5 YR 8/4 Clayey Silty Sand	SC					
4.5					7.5 YR 8/4 Clayey Silty Sand	SC					
5.0					7.5 YR 8/4 Clayey Silty Sand	SC					
5.5					7.5 YR 8/4 Clayey Silty Sand	SC					
6.0					7.5 YR 8/4 Clayey Silty Sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
MM - 9/16

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KATLD 151 DATE: 9/16/94  
 LOCATION ID: 0147 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2. Small crater 50' west of large trench (0145, 0146). Well caving in crater is collapsed in on itself  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkan

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	clayey silty sand SYR 8/4	SM					
1.0				100	clayey silty sand SYR 5/4	SM					
1.5				100	clayey silty sand SYR 5/4	SM					
2.0				100	clayey silty sand SYR 5/4	SC					
2.5				100	clayey silty sand SYR 5/4	SC					
3.0				100	clayey silty sand SYR 5/4	SC					
3.5				100	clayey silty sand SYR 5/4	SC					
4.0				100	clayey silty sand SYR 5/4	SC					
4.5				100	clayey silty sand SYR 5/4	SC					
5.0				100	clayey silty sand SYR 5/4	SC					
					stagnant in active soils						

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



# SOIL BORING LOG

SITE ID: KRTD 154 DATE: 9/16  
 LOCATION ID: 0148 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Small crater w/ collapsed well casing East Side inside crater geophysics Area?  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5					7.5 YR 7/4 Clayey Silty Sand	SC					
1.0					7.5 YR 7/4 Clayey Silty Sand	SC					
1.5					7.5 YR 7/4 Clayey Silty Sand	SC					
2.0					7.5 YR 7/4 Clayey Silty Sand	SC					
2.5					7.5 YR 7/4 Clayey Silty Sand	SC					
3.0					7.5 YR 8/4 Clayey Silty Sand	SC					
3.5					7.5 YR 8/4 Clayey Silty Sand	SC					
4.0					7.5 YR 8/4 Clayey Silty Sand	SC					
4.5					7.5 YR 8/4 Clayey Silty Sand	SC					
5.0					7.5 YR 8/4 Clayey Silty Sand	SC					

- SAMPLE METHODS**

  - A - AUGER CUTTINGS
  - D - DRIVE TUBE
  - S - SHELBY TUBE
  - H - HAND SCOOP
  - O - OTHER
- CONSTRUCTION METHODS**

  - R - ROTARY (STATE ROTARY METHOD)
  - A - AUGERED OR BORED
  - C - CABLE TOOL
  - D - DUG
  - J - JETTED
- P - AIR PERCUSSION**

  - T - TRENCHING
  - B - BOREHOLE
  - O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE) MM - 9/16 TECHNICAL REVIEWER: (SIGNATURE/DATE) \_\_\_\_\_

## SOIL BORING LOG

SITE ID: KRTD154 DATE: 9/16/94  
 LOCATION ID: 0149 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 2. Crater approx 150' south of SW corner of grid. Out of gridded area.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkan

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100	Silty Sand S4R 7/4	SM					
1.0				100	clayey Silty Sand S4R 6/4	SC					
1.5				100	clayey Silty Sand S4R 6/4	SC					
2.0				100	clayey silty Sand S4R 6/4	SC					
2.5				100	clayey Silty Sand S4R 6/4	SC					
3.0				100	clayey Silty Sand S4R 6/4	SC					
3.5				100	clayey Silty Sand S4R 6/4	SC					
4.0				100	clayey Silty Sand S4R 6/4	SC					
4.5				100	clayey Silty Sand S4R 6/4	SC					
5.0				100	clayey Silty Sand S4R 7/3	SM					
				100	clayey Silty Sand S4R 7/3	SM					
				100	Obstruction at 5'						
				100	Stop & Sample						

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: LR7LD 154 DATE: 9/16  
 LOCATION ID: 0150 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Small Crater Geophysical Area 2 Apex  
100' South of South West corner  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 7/4 Clayey Silty Sand	SM				Some Rock Debris	
1.0					7.5 YR 7/4 Clayey Silty Sand	SM					
1.5					7.5 YR 7/4 Clayey Silty Sand	SM					
2.0					7.5 YR 7/4 Clayey Silty Sand	SM					
2.5					7.5 YR 7/4 Clayey Silty Sand	SM					
3.0					7.5 YR 7/4 Clayey Silty Sand	SM					
3.5					7.5 YR 7/4 Clayey Silty Sand	SM					
4.0					7.5 YR 7/4 Clayey Silty Sand	SM					
4.5					7.5 YR 7/4 Clayey Silty Sand	SM					
5.0					7.5 YR 7/4 Clayey Silty Sand	SM					
5.5					7.5 YR 7/4 Clayey Silty Sand	SM					
6.0					7.5 YR 7/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MA 9/16  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/26/94  
 LOCATION ID: 0151 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 3. Crater in SW corner North  
side of crater just outside of crater. 80N 160E on grid  
 COMMENTS: Start at 0850  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand 5YR 4/6	SC					
1.0				100	Clayey Silty Sand 5YR 4/6	SC					
1.5				100	Silty Sand 5YR 4/6	SM					
2.0				100	Silty Sand 5YR 4/6	SM					
2.5		0001	A	100	Silty Sand 5YR 4/6	SM					
3.0				100	Silty Sand 5YR 4/6	SM					
3.5				100	Silty Sand 5YR 4/6	SM					
4.0				100	Silty Sand 5YR 4/6	SM					
4.5				100	Silty Sand 5YR 4/6	SM					
5.0				100	Silty Sand 5YR 4/6	SM					
5.5				100	Silty Sand 5YR 4/6	SM					
6.0				100	Silty Sand 5YR 4/6	SM					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 8/26/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 8/26  
 LOCATION ID: 0152 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: \_\_\_\_\_  
 COMMENTS: SDN, 200E Geophysical Area 3  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					5YR 5/4 Clayey Silty Sand	SC					
1.0					5YR 5/4 Clayey Silty Sand	SC					
1.5					5YR 5/4 Clayey Silty Sand	SC					
2.0					7.5YR 5/8 Silty Sand	SA					
2.5					7.5YR 5/8 Silty Sand	SA					
3.0					4.5YR 5/4 Silty Sand	SA					
3.5					7.5YR 5/4 Silty Sand	SA					
4.0					7.5YR 5/4 Silty Sand	SA					
4.5					7.5YR 5/4 Silty Sand	SA					
5.0					7.5YR 5/4 Silty Sand	SA					
5.5					7.5YR 5/4 Silty Sand	SA					
6.0					7.5YR 5/4 Silty Sand	SA					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MMH 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTCD 154 DATE: 8/26/94  
 LOCATION ID: 0153 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Center in SW corner of Geophysical Area 3  
East side of crater 400 170E  
 COMMENTS: Start at 0910  
 FIELD REPRESENTATIVE(S): P/um

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Silty <del>Clay</del> Some Organics 5YR 4/6	SM					
1.0				100	Silty Sand Some Organics 5YR 4/6	SM					
1.5				100	Silty Sand 5YR 4/6	SM					
2.0				100	Silty Sand 5YR 4/6	SM				Some cement	
2.5				100	Silty Sand 5YR 4/6	SM				Some cement	
3.0				100	Silty Sand 5YR 4/6	SM				Some cement	
3.5				100	Silty Sand 5YR 4/6	SM				Some Cement	
4.0				100	Silty Sand 5YR 4/6	SM					
4.5				100	Silty Sand 5YR 4/6	SM					
5.0				100	Silty Sand 5YR 4/6	SM					
5.5				100	Silty Sand 5YR 4/6	SM					
6.0				100	Silty Sand 5YR 4/6	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Rich. Min 8/26/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/26  
 LOCATION ID: 0154 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: SDN, 150' Geophysical Area 3  
 COMMENTS: Inside CIARE  
 FIELD REPRESENTATIVE(S): Jbhuza

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD *	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					Clayey Silty Sand 7.5YR 3/4	SC					
1.0					Clayey Silty Sand 7.5YR 3/4	SC					
1.5					Clayey Silty Sand 7.5YR 5/4	SC					
2.0					5YR 6/4 Silty Sand	SH					
2.5					5YR 6/4 Silty Sand	SH					
3.0					5YR 6/4 Silty Sand	SH					
3.5					5YR 8/2 Silty Sand	SH					
4.0					5YR 8/2 Silty Sand	SH					
4.5					5YR 8/2 Silty Sand	SH					
5.0					5YR 8/2 Silty Sand	SH					
5.5					5YR 8/2 Silty Sand	SH					
6.0					5YR 8/2 Silty Sand	SH					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MMV 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLDISY DATE: 8/26/94  
 LOCATION ID: 0155 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 3, 260N, 240E on grid. On South  
side of crater edge.  
 COMMENTS: Start 10:25  
 FIELD REPRESENTATIVE(S): PM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand 5YR 5/4	SC					
10				100	Clayey Silty Sand 5YR 5/4	SC					
15				100	Silty Sand 5YR 5/4	SM					
20				100	Silty Sand 5YR 5/4	SM					
25			A	100	Silty Sand 5YR 5/4	SM					
30				100	Silty Sand 5YR 5/4	SM					
35				100	Silty Sand 5YR 5/4	SM					
40				100	Silty Sand 5YR 5/4	SM					
45				100	Silty Sand 5YR 5/4	SM					
50				100	Silty Sand 5YR 5/4	SM					
55				100	Silty Sand 5YR 5/4	SM					
60				100	Silty Sand 5YR 5/4	SM					

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Rock Miller 8/26/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



# SOIL BORING LOG

SITE ID: KRZD154 DATE: 8/26  
 LOCATION ID: 0156 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 260N, 260E Geophysics Area 3  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 5/4 Silty Sand	SM					
1.5					7.5 YR 5/4 Silty Sand	SM					
2.0					7.5 YR 5/4 Silty Sand	SM					
2.5					7.5 YR 5/4 Silty Sand	SM					
3.0					7.5 YR 5/4 Silty Sand	SM					
3.5					7.5 YR 5/4 Silty Sand	SM					
4.0					7.5 YR 5/4 Silty Sand	SM					
4.5					10 YR 7/4 Silty Sand	SM					
5.0					10 YR 7/4 Silty Sand	SM					
5.5					10 YR 7/4 Silty Sand	SM					
6.0					10 YR 7/4 Silty Sand	SM					

### SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

### CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MMV 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: LBTLDIS4 DATE: 8/26/94  
 LOCATION ID: 0157 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area? 280N, 240E on Grid. North  
side of crater inside crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKMS

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 5/4	SC					
1.0				100	Clayey Silty Sand 5YR 5/4	SC					
1.5				100	Clayey Silty Sand 5YR 5/4	SC					
2.0				100	Silty Sand 5YR 5/4	SM					
2.5		0001	A	100	Silty Sand 5YR 5/4	SM					
3.0				100	Silty Sand 5YR 5/4	SM					
4.0				100	Silty Sand 5YR 5/4 Some Rock	SM					
4.5				100	Silty Sand 5YR 5/4 Some Rocks	SM					
5.0				100	Silty Sand 5YR 5/4 Some Rocks	SM					
5.5				100	Silty Sand 5YR 5/4 Some Rocks	SM					
6.0				100	Silty Sand 5YR 5/4	SM					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Paul Davis 8/26/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRZD/54 DATE: 8/26  
 LOCATION ID: 0158 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 200N, 260E Geophys Area 3  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 5/4 Silty sand	SM					
1.0					7.5 YR 5/4 Silty sand	SM					
1.5					7.5 YR 5/4 Silty sand	SM					
2.0					7.5 YR 5/4 Silty sand	SM					
2.5					7.5 YR 5/4 Silty sand	SM					
3.0					7.5 YR 5/4 Silty sand	SM					
3.5					7.5 YR 5/4 Silty sand	SM					
4.0					7.5 YR 5/4 Silty sand	SM					
4.5					7.5 YR 5/4 Silty sand	SM					
5.0					7.5 YR 5/4 Silty sand	SM					
5.5					7.5 YR 5/4 Silty sand	SM					
6.0					7.5 YR 3/4 Silty sand	SM					

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/26/94  
 LOCATION ID: 0159 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 3 at Grid 300N, 240E. South side of crater on rim.  
 COMMENTS: Start 1155  
 FIELD REPRESENTATIVE(S): Pkan

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand 5YR 5/4	SC					
10				100	Clayey Silty Sand 5YR 5/4	SC				Some organic	
15				100	Clayey Silty Sand 5YR 5/4	SC					
20				100	Clayey Silty Sand 5YR 5/4	SC					
25				100	Silty Sand 5YR 5/4	SM					
30				100	Clayey Silty Sand 5YR 5/4	SC					
35				100	Silty Sand 5YR 5/4	SM				Some cement	
40				100	Silty Sand 5YR 5/4	SM					
45				100	Silty Sand 5YR 5/4	SM					
50				100	Silty Sand 5YR 5/4	SM					
55				100	Silty Sand 5YR 5/4	SM					
60				100	Silty Sand 5YR 5/4	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pkan 8/26/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRILD 154 DATE: 8/26  
 LOCATION ID: 0160 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 3" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 320 N, 340 E Geophysical Area 3  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Inside CLAR

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5					7.5 YR 6/4 Silty Sand	SM					
1.0					7.5 YR 6/4 Silty Sand	SM					
1.5					7.5 YR 6/4 Silty Sand	SM					
2.0					7.5 YR 6/4 Silty Sand	SM					
2.5					7.5 YR 6/4 Silty Sand	SM					
3.0					7.5 YR 6/4 Silty Sand	SM					
3.5					7.5 YR 6/4 Silty Sand	SM					
4.0					7.5 YR 6/4 Silty Sand	SM					
4.5					7.5 YR 6/4 Silty Sand	SM					
5.0					7.5 YR 6/4 Silty Sand	SM					
5.5					7.5 YR 6/4 Silty Sand	SM					
6.0					7.5 YR 6/4 Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/26/94  
 LOCATION ID: 0161 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical area 3 - Grid 300E, 220N plan  
300N, 220E west side of crater  
 COMMENTS: Start 1225  
 FIELD REPRESENTATIVE(S): Dkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand 5 YR 5/4	SC				Some organic	
1.0				100	clayey silty sand 5 YR 5/4	SC					
1.5				100	Silty Sand 5 YR 5/4	SM					
2.0				100	Silty Sand 5 YR 5/4	SM				some cement	
2.5		0001	A	100	Silty Sand 5 YR 5/4	SM				some cement	
3.0				100	Silty Sand 5 YR 5/4	SM					
3.5				100	Silty Sand 5 YR 5/4	SM					
4.0				100	Silty Sand 5 YR 5/4	SM					
5.0				100	Silty Sand 5 YR 5/4	SM					
5.5				100	Silty Sand 5 YR 5/4	SM					
6.0				100	Silty Sand 5 YR 5/4	SM					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: R. K. Mison 8/26/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL 154 DATE: 8/26  
 LOCATION ID: 0162 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): \_\_\_\_\_ CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 320N, 225E Geophys Area 3  
 COMMENTS: on outer edge of Crater.  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5YR 6/4 Silty Sand	SM					
1.5					7.5YR 6/4 Silty Sand	SM					
2.0					7.5YR 5/4 Silty Sand	SM					
2.5					7.5YR 5/4 Silty Sand	SM					
3.0					7.5YR 5/4 Silty Sand	SM					
3.5					7.5YR 5/4 Silty Sand	SM					
4.0					10YR 7/3 Silty Sand	SM					
4.5					10YR 7/3 Silty Sand	SM					
5.0					10YR 7/3 Silty Sand	SM					
5.5					10YR 7/3 Silty Sand	SM					
6.0					10YR 7/3 Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

mm 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/26  
 LOCATION ID: D163 BORE HOLE DEPTH (FT): \_\_\_\_\_  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: S20E, 320N Geophys Area 3  
 COMMENTS: edge of crater  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5YR 4/4 Silty sand	SM					
1.0					7.5YR 4/4 Silty sand	SM					
1.5					7.5YR 4/4 Silty sand	SM					
2.0					7.5YR 4/4 Silty sand	SM					
2.5					10YR 6/3 Silty sand	SM					
3.0					10YR 6/3 Silty sand	SM					
3.5					10YR 6/3 Silty sand	SM					
4.0					10YR 6/3 Silty sand	SM					
4.5					10YR 6/3 Silty sand	SM					
5.0					10YR 6/3 Silty sand	SM					
5.5					10YR 6/3 Silty sand	SM					
6.0					10YR 6/3 Silty sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/26  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

C-43



## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/26/94  
 LOCATION ID: 0164 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical area 3 - Grid 340N, 500E in center of crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pear

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Sand 5YR 5/4	SC					
1.0				100	Silty Clayey Sand 5YR 5/4	SC					
1.5				100	Silty Clayey Sand 5YR 5/4	SC					
2.0				100	Silty Clayey Sand 5YR 5/4	SC					
2.5		0001	A	100	Silty Clayey Sand 5YR 5/4	SC					
3.0				100	Silty Clayey Sand 5YR 5/4	SC					
3.5				100	Silty Clayey Sand 5YR 5/4	SC					
4.0				100	Silty Clayey Sand 5YR 5/4	SC					
4.5				100	Silty Clayey Sand 5YR 5/4	SC					
5.0				100	Silty Clayey Sand 5YR 5/4	SC					
5.5				100	Silty Clayey Sand 5YR 5/4	SC					
6.0				100	Silty Clayey Sand 5YR 5/4	SC					

\*\* SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

\* CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pear 8/26/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: <sup>PKM</sup> ~~KRTLD00~~ KRTLD154 DATE: 8/26/94  
 LOCATION ID: 0165 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 3 - Grid 360N, 500E,  
 North edge of crater  
 COMMENTS:  
 FIELD REPRESENTATIVE(S): PKM, J Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					CLAYEY SILTY SAND SYR 5/4	SC					
1.0					CLAYEY SILTY SAND SYR 5/4	SC				some organic material	
1.5					CLAYEY SILTY SAND SYR 5/4	SC				some debris	
2.0					CLAYEY SILTY SAND SYR 5/4	SC					
2.5			A		CLAYEY SILTY SAND SYR 5/4	SC				Rock debris	
3.0					SILTY SAND SYR 5/4	SC					
3.5					SILTY SAND SYR 5/4	SC				Rock debris	
4.0					SILTY SAND SYR 5/4	SC				cementation	
4.5					SILTY SAND SYR 5/4	SC					
5.0					SILTY SAND SYR 5/4	SC					
5.5					SILTY SAND SYR 5/4	SC				Cementation	
6.0					SILTY SAND SYR 5/4	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
 Rick Miller 8/26/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KATLD154 DATE: 9/16/94  
 LOCATION ID: 0206 BORE HOLE DEPTH (FT): 5.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4. ~150 west of NW corner of grid.  
In linear depression on north side. ~30' south of road  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): pkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand S4R 6/4	SM					
1.0				100	Clayey Silty Sand S4R 6/4	SM					
1.5				100	Clayey Silty Sand S4R 6/4	SM				Carbonate cement	
2.0				100	Clayey Silty Sand S4R 6/4	SM				Some cement	
2.2		0001	A	100	Clayey Silty Sand S4R 6/4	SM				Cement	
2.5				100	Clayey Silty Sand S4R 6/4	SM				"	
3.0				100	Clayey Silty Sand S4R 6/4	SM				"	
3.5				100	Clayey Silty Sand S4R 6/4	SM				"	
4.0				100	Clayey Silty Sand S4R 6/4	SM				"	
4.5				100	Silty Sand S4R 6/4	SM				"	
5.0				100	Silty Sand S4R 6/4	SM				"	
5.5				50	Silty Sand S4R 7/3	SM				Cemented	
6.0					Stop at 5.5' due to no penetration possible						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
for K. Mir 9/16/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD 154 DATE: 9/16  
 LOCATION ID: 0207 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geo phys Area 4. 150' w of NW corner  
of Grid in long depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 6/4 Clayey Silty Sand SN						
1.0					7.5 YR 6/4 Clayey Silty Sand SN						
1.5					7.5 YR 6/4 Clayey Silty Sand SN						
2.0					7.5 YR 6/4 Clayey Silty Sand SN						
2.5					7.5 YR 6/4 Clayey Silty Sand SN						
3.0					7.5 YR 6/4 Clayey Silty Sand SN						
3.5					7.5 YR 6/4 Clayey Silty Sand SN						
4.0					7.5 YR 6/4 Clayey Silty Sand SN						
4.5					7.5 YR 6/4 Clayey Silty Sand SN						
5.0					7.5 YR 6/4 Clayey Silty Sand SN						
5.5					7.5 YR 6/4 Clayey Silty Sand SN						
6.0					7.5 YR 6/4 Clayey Silty Sand SN						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KATLD154 DATE: 9/16/94  
 LOCATION ID: 0208 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4 ~150' west of NW corner of grid  
In center of linear depression.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): DM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand S4R 6/4	SM					
1.0				100	Clayey Silty Sand S4R 6/4	SM					
1.5				100	Clayey Silty Sand S4R 6/4	SM				Rock concentration	
2.0				100	Clayey Silty Sand S4R 6/4	SM				"	
2.5				100	Clayey Silty Sand S4R 6/4	SM				"	
3.0				100	Clayey Silty Sand S4R 6/4	SM				"	
3.5				100	Clayey Silty Sand S4R 6/4	SM				Reconcentration	
4.0				100	Clayey Silty Sand S4R 6/4	SM				"	
4.5				100	Clayey Silty Sand S4R 6/4	SM				"	
5.0				100	Clayey Silty Sand S4R 6/4	SM				"	
5.5				100	Clayey Silty Sand S4R 6/4	SM				"	
6.0				100	Clayey Silty Sand S4R 6/4	SM				"	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

DM 9/16/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTIP 1541DATE: 7/16LOCATION ID: 0209BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 4, Approx 150' W of NW Corner of Sec. 2 Southern end long depression

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/4 Clayey Silty Sand	sn					
1.0					7.5 YR 6/4 Clayey Silty Sand	sn					
1.5					7.5 YR 6/4 Clayey Silty Sand	sn					
2.0		0001	A		7.5 YR 6/4 Clayey Silty Sand	sn				Very Hard	
2.5					7.5 YR 6/4 Clayey Silty Sand	sn					
3.0					7.5 YR 6/4 Clayey Silty Sand	sn					
3.5					7.5 YR 6/4 Clayey Silty Sand	sn					
4.0					7.5 YR 6/4 Clayey Silty Sand	sn					
4.5					7.5 YR 6/4 Clayey Silty Sand	sn					
5.0					7.5 YR 6/4 Clayey Silty Sand	sn					
5.5					7.5 YR 6/4 Clayey Silty Sand	sn					
6.0					7.5 YR 6/4 Clayey Silty Sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED  
P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
MM - 9/16

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTCD 154DATE: 9/16/94LOCATION ID: 0210BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 4, Approx 40' west of NW corner of grid, in 15-5 depression. Watercourse sample in depression

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Allen

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	clayey silty sand SYR 6/4	SM					
1.0				100	clayey silty sand SYR 6/4	SM					
1.5				100	clayey silty sand SYR 6/4	SM					
2.0				100	clayey silty sand SYR 6/4	SM					
2.5				100	clayey silty sand SYR 6/4	SM					
3.0				100	clayey silty sand SYR 6/4	SC					
3.5				100	clayey silty sand SYR 6/4	SC					
4.0				100	clayey silty sand SYR 6/4	SC					
4.5				100	clayey silty sand SYR 6/4	SC					
5.0				100	clayey silty sand SYR 6/4	SC					
5.5				100	clayey silty sand SYR 6/4	SC					
6.0				100	clayey silty sand SYR 6/4	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 15'1 DATE: 9/16  
 LOCATION ID: 0211 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4. 700' north of north  
corner in long depression. OF, 500 N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	2.5YR 5/4 Clayey Silty Sand	SA					
1.0					7.5YR 5/4 Clayey Silty Sand	SN					
1.5					7.5YR 5/4 Clayey Silty Sand	SN					
2.0					7.5YR 5/4 Clayey Silty Sand	SN					
2.5					7.5YR 5/4 Clayey Silty Sand	SC					
3.0					7.5YR 5/4 Clayey Silty Sand	SC					
3.5					7.5YR 5/4 Clayey Silty Sand	SC					
4.0					7.5YR 6/4 Clayey Silty Sand	SC					
4.5					7.5YR 7/4 Clayey Silty Sand	SC					
5.0					7.5YR 7/4 Clayey Silty Sand	SC					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 9/16  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KCTD0154DATE: 9/16/94LOCATION ID: 0212BORE HOLE DEPTH (FT): 3.0BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 4. Approx ~~100' south~~ WNW corner of  
In North/South trending linear trench (10E, 480N)

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): PKH

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 54R 6/4	SC					
1.0				100	Clayey Silty Sand 54R 6/4	SC					
1.5				100	Clayey Silty Sand 54R 6/4	SC					
2.0				100	Clayey Silty Sand 54R 6/4	SC					
2.5				100	Clayey Silty Sand 54R 6/4	SC					
3.0				100	Clayey Silty Sand 54R 6/4	SC					
					Hit large obstruction at 3' stop & sample above obstruction						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 15' DATE: 9/16  
 LOCATION ID: 0213 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4, 10E, 500N 470W  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5YR 6/4 Clayey Silty Sand	SC					
1.0					7.5YR 5/4 Clayey Silty Sand	SC					
1.5					7.5YR 5/4 Clayey Silty Sand	SC					
2.0					7.5YR 5/4 Clayey Silty Sand	SC					
2.5					7.5YR 5/4 Clayey Silty Sand	SC					
3.0					7.5YR 5/4 Clayey Silty Sand	SC					
3.5					7.5YR 5/4 Clayey Silty Sand	SC					
4.0					7.5YR 5/4 Clayey Silty Sand	SC					
5.0					7.5YR 5/4 Clayey Silty Sand	SC					
5.5					7.5YR 5/4 Clayey Silty Sand	SC					
6.0					7.5YR 5/4 Clayey Silty Sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: HTL0154 DATE: 9/19/94  
 LOCATION ID: 0214 BORE HOLE DEPTH (FT): 3.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4. Grid 230E, 300N. On  
Asphalt edge of borrow area  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Plum

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand $5\frac{1}{2}$ R $5\frac{1}{4}$	SM					
1.0				100	Clayey Silty Sand $5\frac{1}{2}$ R $5\frac{1}{4}$	SM					
1.5				100	Clayey Silty Sand $5\frac{1}{2}$ R $5\frac{1}{4}$	SM					
2.0				100	Clayey Silty Sand $5\frac{1}{2}$ R $5\frac{1}{4}$	SM					
2.5				100	Clayey Silty Sand $5\frac{1}{2}$ R $5\frac{1}{4}$	SM					
3.0					Obstruction at 3'						
					Sample from 2-3'						

•• **SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• **CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Rock Min 9/19/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRIZD154 DATE: 9/19  
 LOCATION ID: 0215 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 240E, 300N geophys Area 4  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 6/6 Clayey Silty Sand	SM					
1.0					7.5YR 6/6 Clayey Silty Sand	SM					
1.5					7.5YR 6/6 Clayey Silty Sand	SM					
2.0					7.5YR 6/6 Clayey Silty Sand	SM					
2.5		0001	A		7.5YR 6/6 Clayey Silty Sand	SM					
3.0					7.5YR 7/4 Clayey Silty Sand	SM					
3.5					7.5YR 7/4 Clayey Silty Sand	SM					
4.0					7.5YR 8/4 Clayey Silty Sand	SM					
4.5					7.5YR 8/4 Clayey Silty Sand	SM					
5.0					7.5YR 8/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 9/19/44  
 LOCATION ID: 0216 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4, Grid 260E, 300N  
Approx 20' west of borrow pit  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): RKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand S4R 5/4	sm					
1.0				100	clayey silty sand S4R 5/4	sm					
1.5				100	clayey silty sand S4R 5/4	sm					
2.0				100	clayey silty sand S4R 5/4	sm					
2.5				100	clayey silty sand S4R 5/4	sm					
3.0				100	silty sand S4R 7/3	sm					
3.5				100	silty sand S4R 7/3	sm					
4.0				100	silty sand S4R 7/3	sm					
4.5				100	silty sand S4R 7/3	sm					
5.0				100	silty sand S4R 7/3	sm					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
RKM 9/19/44

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD 157DATE: 9/19LOCATION ID: 0217BORE HOLE DEPTH (FT): 4.5BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophys Area 4 280E, 300N

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 5/6 Clayey Silty Sand	SM					
1.0					7.5YR 5/6 Clayey Silty Sand	SL					
1.5					7.5YR 5/6 Clayey Silty Sand	SL					
2.0					7.5YR 5/6 Clayey Silty Sand	SL					
2.5					7.5YR 6/4 Clayey Silty Sand	SL					
3.0					7.5YR 6/4 Clayey Silty Sand	SL					
3.5					7.5YR 8/4 Clayey Silty Sand	SL					
4.0					7.5YR 8/4 Clayey Silty Sand	SL					
4.5					7.5YR 8/4 Clayey Silty Sand	SL					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 9/19/94 <sup>pm</sup>  
 LOCATION ID: Q218 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4. Grid 350N, 290E  
On top of small debris pile.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand SYR 5/4	SC					
1.0				100	Clayey Silty Sand SYR 5/4	SC					
1.5				100	Clayey Silty Sand SYR 5/4	SM					
2.0				100	Clayey Silty Sand SYR 5/4	SM				rock debris	
2.5				100	Clayey Silty Sand SYR 5/4	SM				"	
3.0		0001	A	100	Clayey Silty Sand SYR 5/4	SM				"	
3.5				100	Clayey Silty Sand SYR 6/4	SM				"	
4.0				100	Silty Sand SYR 7/3	SM				Consolidation	
4.5				100	Silty Sand SYR 7/3	SM				"	
5.0				100	Silty Sand SYR 7/3	SM				"	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 15' DATE: 7/19  
 LOCATION ID: 0219 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4, 260E, 360N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 6/4 Clayey Silty Sand	sn					
1.0					7.5YR 6/4 Clayey Silty Sand	sn					
1.5					7.5YR 5/4 Clayey Silty Sand	sn					
2.0					7.5YR 5/4 Clayey Silty Sand	sn					
2.5	—	0001	A		7.5YR 5/4 Clayey Silty Sand	sn					
3.0					7.5YR 5/4 Clayey Silty Sand	sn					
3.5					7.5YR 5/4 Clayey Silty Sand	sn					
4.0					7.5YR 5/4 Clayey Silty Sand	sn					
4.5					7.5YR 5/4 Clayey Silty Sand	sn					
5.0	—				7.5YR 7/4 Clayey Silty Sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 9/19/94  
 LOCATION ID: 0220 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4 Cont 300E, 360N On  
cut side of dirt pile and excavation  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKA

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand S 4R 3/4	SM					
1.0				100	Clayey Silty Sand S 4R 6/4	SC					
1.5				100	Clayey Silty Sand S 4R 4/4	SC					
2.0		0001	A	100	Clayey Silty Sand S 4R 6/4	SC				Rock Fragments	
2.5				100	Silty Sand S 4R 7/3	SM				Some cement	
3.0				100	Silty Sand S 4R 7/3	SM				"	
3.5				100	Silty Sand S 4R 7/3	SM				"	
4.0				100	Silty Sand S 4R 7/3	SM				"	
4.5				100	Silty Sand S 4R 7/3	SM				Cementation	
5.0				100	Silty Sand S 4R 7/3	SM				"	
					Stop at 5. Well into caliche						

•• **SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHIELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• **CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
PKA 9/19/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL D154 DATE: 9/19  
 LOCATION ID: 0221 BORE HOLE DEPTH (FT): 5.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4 290 E, 370 N  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5				100%	7.57R 6/4 Clayey Silty Sand	SN					
1.0					7.57R 6/4 Clayey Silty Sand	SN					
1.5					7.57R 6/4 Clayey Silty Sand	SN					
2.0					7.57R 6/4 Clayey Silty Sand	SN					
2.5					7.57R 6/4 Clayey Silty Sand	SN					
3.0					7.57R 6/4 Clayey Silty Sand	SN					
3.5					7.57R 6/4 Clayey Silty Sand	SN					
4.0					7.57R 7/4 Clayey Silty Sand	SN					
4.5					7.57R 7/4 Clayey Silty Sand	SN					
5.0					7.57R 7/4 Clayey Silty Sand	SN					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

M - 9/19  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/19/94  
 LOCATION ID: 0222 BORE HOLE DEPTH (FT): 5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 4 ~200' NE of gridded area  
100' South of road. In depression On south side  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pku

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand $S_{4R} 6/4$	SM					
1.0				100	Clayey Silty Sand $S_{4R} 6/4$	SM					
1.5				100	clayey Silty Sand $S_{4R} 6/4$	SM					
2.0				100	clayey Silty Sand $S_{4R} 6/4$	SM				over cement	
2.5				100	clayey Silty Sand $S_{4R} 6/4$	SM				"	
3.0				100	clayey Silty Sand $S_{4R} 6/4$	SM				"	
3.5				100	Silty Sand $S_{4R} 7/3$	SM				Cementation	
4.0				100	Silty Sand $S_{4R} 7/3$	SM				"	
4.5				100	Silty Sand $S_{4R} 7/3$	SM				"	
5.0				100	Silty Sand $S_{4R} 7/3$	SM				"	
					Stop at 5' well into caliche layer						

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pku 9/19/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154DATE: 9/19LOCATION ID: 0223BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: MALOCATION DESCRIPTION: Geophysical Area 4 200' NE of Grid. 100'  
South of Road in slight depression

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.57R 6/4 Clayey Silty Sand	SM					
1.0					7.57R 6/4 Clayey Silty Sand	SM					
1.5					7.57R 6/4 Clayey Silty Sand	SM					
2.0					7.57R 6/4 Clayey Silty Sand	SM					
2.5		2001	A		7.57R 6/4 Clayey Silty Sand	SM					
3.0					7.57R 6/4 Clayey Silty Sand	SM					
3.5					7.57R 6/4 Clayey Silty Sand	SM					
4.0					7.57R 6/4 Clayey Silty Sand	SM					
4.5					7.57R 6/4 Clayey Silty Sand	SM					
5.0					7.57R 6/4 Clayey Silty Sand	SM					
5.5					7.57R 7/4 Clayey Silty Sand	SM					
6.0					7.57R 7/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

MA 9/19  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/30/94  
 LOCATION ID: 0226 BORE HOLE DEPTH (FT): 4  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5. Just east of I-beam  
Approx. 250W, 200E. Southernmost of 2 adjacent samples.  
 COMMENTS: Hit obstruction at 4' Stop + Sample  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/6	SC					
2.0				100	Coarse Medium Sand 5YR 5/6	SP					
2.5				100	Coarse Sand w/Silt + Cobbles 5YR 5/6	SP					
3.0				100	Clayey Silty Sand (Coarse) w/Cobbles 5YR 5/6	SP					
3.5				100	Clayey Silty Sand (medium) w/Cobbles 5YR 5/6	SM					
4.0				100	Clayey Silty Sand (medium) 5YR 5/6	SM					
4.5				100	Clayey Silty Sand (medium) 5YR 5/6	SC					
4.5					HIT OBSTRUCTION STOP + SAMPLE ↳ Large rock or cement						

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/30  
 LOCATION ID: 0227 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 240N, 200E Geophy, Area 5  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 6/4 Clayey Silty Sand	sn					
1.0					7.5YR 6/4 Clayey Silty Sand	sn					
1.5					7.5YR 6/4 Clayey Silty Sand	sn					
2.0					7.5YR 6/4 Clayey Silty Sand	sn					
2.5					7.5YR 6/4 Clayey Silty Sand	sn					
3.0		0001	A		7.5YR 6/4 Clayey Silty Sand	sn					
3.5					7.5YR 6/4 Clayey Silty Sand	sn					
4.0					7.5YR 6/4 Clayey Silty Sand	sn					
4.5					7.5YR 6/4 Silty Sand	sn					
5.0					7.5YR 6/4 Silty Sand	sn					
5.5					7.5YR 6/4 Silty Sand	sn					
6.0					7.5YR 6/4 Silty Sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/30/94  
 LOCATION ID: 0228 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 → 350N, 170E, Northernmost of the 2 adjacent sampling locations  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PLM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand S YR 5/6	SC					
1.0				100	Clayey Silty Sand S YR 5/6	SC					
1.5				100	Clayey Silty Sand S YR 5/6	SC					
2.0				100	Clayey Silty Sand S YR 5/6	SC					
2.5				100	Clayey Silty Sand S YR 5/6	SC					
3.0				100	Clayey Silty Sand S YR 5/6	SC					
3.5				100	Clayey Silty Sand S YR 5/6	SC					
4.0				100	Clayey Silty Sand S YR 5/6	SC					
4.5				100	Silty Sand S YR 6/4	SM					
5.0				100	Silty Sand S YR 6/4	SM					
5.5				100	Silty Sand S YR 6/4	SM					
6.0				100	Silty Sand S YR 6/4	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PLM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD154 DATE: 8/30  
 LOCATION ID: 0229 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 350N, 170E Approx, Geophysics Area 5  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 7/2 Silty coarse sand	SM				some cementation ↓ Heavy Cementation	
1.0					7.5YR 7/2 Silty coarse sand	SM					
1.5					7.5YR 7/2 Silty coarse sand	SM					
2.0					7.5YR 7/2 Silty coarse sand	SM					
2.5					7.5YR 7/2 Silty coarse sand	SM					
3.0					7.5YR 7/2 Silty coarse sand	SM					
3.5					7.5YR 7/2 Silty coarse sand	SM					
4.0					7.5YR 7/2 Silty coarse sand	SM					
4.5					7.5YR 7/2 Silty coarse sand	SM					
5.0					7.5YR 7/2 Silty coarse sand	SM					
5.5					7.5YR 7/2 Silty coarse sand	SM					
6.0					7.5YR 8/4 Silty sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/30/94  
 LOCATION ID: 0230 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 460N 80E  
Adjacent to green post  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand 5 YR 5/6	SC				Wood fragments	
6.0				100	Clayey Silty Sand 5 YR 5/6	SC				Rock fragments	
1.5				100	Clayey Silty Sand 5 YR 5/6	SC				"	
2.0				100	Clayey Silty Sand 5 YR 5/6	SC				"	
2.5				100	Clayey Silty Sand 5 YR 5/6	SC				"	
2.5				100	Clayey Silty Sand 5 YR 5/6	SC				"	
2.5				100	Clayey Silty Sand 5 YR 5/6	SC				Rock frags + cement	
3.5				100	Clayey Silty Sand 5 YR 5/6	SC				Rock frags + cement	
4.0				100	Clayey Silty Sand 5 YR 5/6	SC				"	
4.5				100	Clayey Silty Sand 5 YR 5/6	SC				Rock frags	
5.0				100	Clayey Silty Sand 5 YR 5/6	SC					
5.5				100	Clayey Silty Sand 5 YR 5/6	SC					
6.0				100	Clayey Silty Sand 5 YR 5/6	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pkm 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTCD 154 DATE: 8/30  
 LOCATION ID: 0231 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): \_\_\_\_\_ CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 40E, 450N, Geophys Area 5  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 7/2 Silty Coarse Sand	SN				Some Pebbles/ Rock debris	
1.0					7.5YR 7/2 Silty Coarse Sand	SN					
1.5					7.5YR 7/2 Silty Coarse Sand	SN					
2.0					7.5YR 7/2 Silty Coarse Sand	SN					
2.5					7.5YR 7/2 Silty Coarse Sand	SN					
3.0					7.5YR 7/2 Silty Coarse Sand	SN					
3.5					7.5YR 7/2 Silty Coarse Sand	SN					
4.0					7.5YR 7/2 Silty Coarse Sand	SN					
4.5					7.5YR 7/2 Silty Coarse Sand	SN					
5.0					7.5YR 7/2 Silty Coarse Sand	SN					
5.5					7.5YR 7/2 Silty Coarse Sand	SN					
6.0					7.5YR 7/2 Silty Coarse Sand	SN					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KPTLD154 DATE: 8/30/94  
 LOCATION ID: 0232 BORE HOLE DEPTH (FT): 12  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: North of Geophysical Area 5. Approx 100' north of  
large center. Adjacent to green post. Westernmost sample.  
 COMMENTS: 420' west  
 FIELD REPRESENTATIVE(S): P. K. Murr

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand S YR S/L	SC					
1.0				100	Clayey Silty Sand S YR S/L	SC					
1.5				100	Clayey Silty Sand S YR S/L	SC					
2.0				100	Clayey Silty Sand S YR S/L	SC					
2.5				100	Clayey Silty Sand S YR S/L	SC					
3.0				100	Clayey Silty Sand S YR S/L	SC					
3.5				100	Clayey Silty Sand S YR S/L	SC					
4.0				100	Clayey Silty Sand S YR S/L	SC					
4.5				100	Clayey Silty Sand S YR S/L	SC					
5.0				100	Clayey Silty Sand S YR S/L	SC					
5.5				100	Clayey Silty Sand S YR S/L	SC					
6.0				100	Silty Sand S YR 6/4	SM				Consolidation	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

P. K. Murr 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL01541 DATE: 8/30  
 LOCATION ID: 0233 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): \_\_\_\_\_ CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: A 100' North of large crater. S' east of Blue pipe.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100%	10YR 4/6 Clayey Silty Sand	SN					
1.0					2.5YR 7/2 Clayey Silty Sand	SN					
1.5					7.5YR 7/2 Clayey Silty Sand	SN					
2.0					7.5YR 7/2 Clayey Silty Sand	SN					
2.5					7.5YR 7/2 Clayey Silty Sand	SN					
3.0					7.5YR 7/2 Clayey Silty Sand	SN					
3.5					7.5YR 7/2 Clayey Silty Sand	SN					
4.0					7.5YR 7/2 Clayey Silty Sand	SN					
4.5					7.5YR 7/2 Clayey Silty Sand	SN					
5.0					7.5YR 7/2 Clayey Silty Sand	SN					
5.5					7.5YR 7/2 Clayey Silty Sand	SN					
6.0					7.5YR 8/4 Clayey Silty Sand	SN					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: 1K2TLD154 DATE: 8/30/94  
 LOCATION ID: 0234 BORE HOLE DEPTH (FT): 4  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 - North of area in 2.  
large crater on SW side.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 5/6	SC					
1.2				100	Clayey Silty Sand 5YR 5/6	SC				Some pebbles	
1.5				100	Clayey Silty Sand 5YR 5/6	SC				Some pebbles	
2.0				100	Clayey Silty Sand 5YR 5/6	SC					
2.5			A	100	Clayey Silty Sand 5YR 5/6	SC					
3.0				100	Clayey Silty Sand 5YR 5/6	SC					
3.5				100	Clayey Silty Sand 5YR 5/6	SC					
4.0				100	Clayey Silty Sand 5YR 5/6	SC					
4.5				100	Clayey Silty Sand 5YR 5/6	SC					
5.0				100	Clayey Silty Sand 5YR 5/6	SC					
5.5				100	Clayey Silty Sand 5YR 5/6	SC					
6.0				100	Clayey Silty Sand 5YR 5/6	SC					
6.5				100	Clayey Silty Sand 5YR 5/6	SC					
7.0				100	Clayey Silty Sand 5YR 5/6	SC					
7.5				100	Clayey Silty Sand 5YR 5/6	SC					
8.0				100	Clayey Silty Sand 5YR 5/6	SC					
8.5				100	Clayey Silty Sand 5YR 5/6	SC					
9.0				100	Clayey Silty Sand 5YR 5/6	SC					
9.5				100	Clayey Silty Sand 5YR 5/6	SC					
10.0				100	Clayey Silty Sand 5YR 5/6	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pkm 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD 154DATE: 8/30LOCATION ID: 0235BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Inside large Crater North of Geophys Area 5 on western slope.

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/4 Clayey Silty Sand Sn					Some Pebbles/ Concentrations	
1.0					7.5 YR 6/4 Clayey Silty Sand Sn						
1.5					7.5 YR 6/4 Clayey Silty Sand Sn					Moist	
2.0					7.5 YR 7/4 Clayey Silty Sand Sn						
2.5					7.5 YR 7/4 Clayey Silty Sand Sn						
3.0					7.5 YR 7/4 Clayey Silty Sand Sn						
3.5					7.5 YR 4/4 Clayey Silty Sand Sn						
4.0					7.5 YR 4/4 Clayey Silty Sand Sn						
4.5					7.5 YR 4/4 Clayey Silty Sand Sn						
5.0					7.5 YR 4/4 Clayey Silty Sand Sn						
5.5					7.5 YR 4/4 Clayey Silty Sand Sn						
6.0					7.5 YR 4/4 Clayey Silty Sand Sn						

## SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

MM 8/30/94  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

**SOIL BORING LOG**

SITE ID: KRTL0154 DATE: 8/30/94  
 LOCATION ID: 0236 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 - Crater just north of Area South rim of crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkan

**LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)**

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/6	SC					
0				100	Clayey Silty Sand 5YR 5/6	SC				Some Cabbles	
1.5				100	Clayey Silty Sand 5YR 5/6	SC				"	
2.0				100	Clayey Silty Sand 5YR 5/6	SC				Some pebbles	
2.5		2001	A	100	Clayey Silty Sand 5YR 5/6	SC				Cabbles	
3.0				100	Clayey Silty Sand 5YR 5/6	SC					
3.5				100	Clayey Silty Sand 5YR 5/6	SC					
4.0				100	Clayey Silty Sand 5YR 5/6	SC					
4.5				100	Clayey Silty Sand 5YR 5/6	SC					
5.0				100	Clayey Silty Sand 5YR 5/6	SC					
5.5				100	Clayey Silty Sand 5YR 5/6	SC					
6.0				100	Clayey Silty Sand 5YR 5/6	SC					

**SAMPLE METHODS**

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pkan 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTD/54 DATE: 8/30  
 LOCATION ID: 0237 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Large Crater north of Geophys Area 5.  
inside North East side of Crater.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/4 Clayey Silty Sand	SN					
1.0					7.5 YR 6/4 Clayey Silty Sand	SN					
1.5					7.5 YR 6/4 Clayey Silty Sand	SN					
2.0					7.5 YR 6/4 Clayey Silty Sand	SN					
2.5					7.5 YR 6/4 Clayey Silty Sand	SN					
3.0					7.5 YR 6/4 Clayey Silty Sand	SN					
3.5					7.5 YR 6/4 Clayey Silty Sand	SN					
4.0					7.5 YR 6/4 Clayey Silty Sand	SN					
4.5					7.5 YR 6/4 Clayey Silty Sand	SN					
5.0					7.5 YR 6/4 Clayey Silty Sand	SN					
5.5					7.5 YR 6/4 Clayey Silty Sand	SN					
6.0					7.5 YR 6/4 Clayey Silty Sand	SN					

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

\_\_\_\_\_  
 TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/31/94  
 LOCATION ID: 0238 BORE HOLE DEPTH (FT): 4.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 North of Gridded area  
75' North of 232 & 233 (Green Post) In area of exposed concrete  
Westernmost of 2 locations.  
 COMMENTS: Hit obstruction in 2 holes at 4.5'  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/4	SC				Rock fragments	
1.2				100	Clayey Silty Sand 5YR 5/4	SC				Rock fragments	
1.5				100	Clayey Silty Sand 5YR 5/4	SC				Rock fragments	
2.0				100	Clayey Silty Sand 5YR 5/4	SC				Rock fragments	
2.5				100	Clayey Silty Sand 5YR 5/4	SC				Rock fragments	
3.0				100	Clayey Silty Sand 5YR 5/4	SC				Rock frag.	
3.5				100	Clayey Silty Sand 5YR 5/4	SC				Rock, wood	
4.0				100	Clayey Silty Sand 5YR 5/4	SC				Rock frags.	
4.5				100	Clayey Silty Sand 5YR 5/4	SC				Rock frags	
HIT OBSTRUCTION IN TWO HOLES AT 4.5'											

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 8/31/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/31  
 LOCATION ID: 0239 BORE HOLE DEPTH (FT): 4.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophys Area 5. ~ 75' North 232 + 233  
in area of exposed pad.  
 COMMENTS: HER OBSTRUCTION AT 4.5'  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	10YR 6/4 Clayey Silty Sand	SA					
1.0					10YR 5/4 Clayey Silty Sand	SM					
1.5					10YR 5/4 Clayey Silty Sand	SM					
2.0		0001	A		10YR 5/4 Clayey Silty Sand	SM					
2.5					10YR 5/4 Clayey Silty Sand	SM					
3.0					10YR 5/4 Clayey Silty Sand	SM					
3.5					10YR 5/4 Clayey Silty Sand	SM					
4.0					10YR 5/4 Clayey Silty Sand	SM					
4.5				100% 50%	10YR 5/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154DATE: 8/31/94LOCATION ID: 0240BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Geophysical Area 2 North of Area Approx 75 North  
of 0238 & 0239. Farthest west of 2 adjacent samples

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Plum

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5/8 5/4	SC				Rock Frag	
1.2				100	Clayey Silty Sand 5/8 5/4	SC				Rock Frag	
1.5				100	Clayey Silty Sand 5/8 5/4	SC				Rock Frag	
2.0				100	Silty Sand (Medium/Course) 5/8 5/4	SM				Cobbles	
2.5				100	Silty Sand (Medium/Course) 5/8 5/4	SM				Cobbles	
3.0				100	Silty Sand (Medium/Course) 5/8 5/4	SM				Cobbles	
3.5				100	Silty Sand (Med/Course) 5/8 5/4	SM				Cobbles	
4.0				100	Silty Sand (Med/Course) 5/8 5/4	SM				Cobbles	
4.5				100	Silty Sand (Med/Course) 5/8 5/4	SM				"	
5.0				100	Silty Sand (Course) 5/8 5/4	SM				"	
5.5				100	Silty Sand (Course) 5/8 5/4	SM				"	
6.0				100	Silty Sand (Course) 5/8 5/4	SM				"	

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Plum 8/31/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/31  
 LOCATION ID: 0241 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: ~100' north of 239  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	10YR 7/4 Coarse Silty Sand	SM					
1.0					10YR 7/4 Coarse Silty Sand	SM					
1.5					10YR 7/4 Coarse Silty Sand	SM					
2.0					10YR 7/4 Coarse Silty Sand	SM					
2.5					10YR 7/4 Coarse Silty Sand	SM					
3.0					10YR 7/4 Coarse Silty Sand	SM					
3.5					10YR 7/4 Coarse Silty Sand	SM					
4.0					10YR 7/4 Coarse Silty Sand	SM					
4.5					10YR 7/4 Coarse Silty Sand	SM					
5.0					10YR 7/4 Coarse Silty Sand	SM					
5.5					10YR 7/4 Coarse Silty Sand	SM					
6.0					10YR 7/4 Coarse Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MR 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

**SOIL BORING LOG**

SITE ID: KRTL0154 DATE: 8/31/94  
 LOCATION ID: 0242 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5. North of grid Approx 250' east  
of 0240 & 0241. Near concrete pad covered with steel plate  
 COMMENTS: Sample from SW side of pad  
 FIELD REPRESENTATIVE(S): Pkm

**LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)**

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	clayey silty sand (medium) 5YR 6/4	SC				Some cobbles	
1.2				100	clayey silty sand (m) 5YR 6/4	SC				Some cobbles	
1.5				100	clayey silty sand 5YR 6/4	SC				cobbles	
2.0				100	clayey silty sand 5YR 5/4	SC					
2.5				100	clayey silty sand 5YR 5/4	SC					
3.0				100	clayey silty sand 5YR 5/4	SC					
3.5				100	clayey silty sand 5YR 5/4	SC					
4.0				100	clayey silty sand 5YR 5/4	SC					
4.5				100	clayey silty sand 5YR 5/4	SC					
5.0				100	clayey silty sand 5YR 5/4	SC					
5.5				100	clayey silty sand 5YR 5/4	SC					
6.0				100	clayey silty sand 5YR 5/4	SC					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Pkm 8/31/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRCD 154 DATE: 8/31  
 LOCATION ID: 0243 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: North East Corner of large Cement pad w/  
Steel plate. North part of Geophys area 5.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	10YR 7/4 Clayey Silty Sand	SM					
1.0					10YR 7/4 Clayey Silty Sand	SM					
1.5					10YR 7/4 Clayey Silty Sand	SM					
2.0					10YR 7/4 Clayey Silty Sand	SM					
2.5					10YR 7/4 Clayey Silty Sand	SM					
3.0					10YR 7/4 Clayey Silty Sand	SM					
3.5					10YR 7/4 Clayey Silty Sand	SM					
4.0					10YR 5/4 Clayey Silty Sand	SM					
4.5					10YR 5/4 Clayey Silty Sand	SM					
5.0					10YR 5/4 Clayey Silty Sand	SM					
5.5					10YR 5/4 Clayey Silty Sand	SM					
6.0					10YR 5/4 Clayey Silty Sand	SM					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLD154 DATE: 8/31/94  
 LOCATION ID: 0244 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Geophysical Area 5 - North of Area - Dubs Test 11-B  
Northernmost of all samples in area. About 200' east of desert fire cage on road.  
 COMMENTS: Westernmost of 2 adjacent sampling locations.  
 FIELD REPRESENTATIVE(S): Pkan

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 6/4	SC					
1.0				100	Clayey Silty Sand 5YR 6/4	SC					
1.5				100	Clayey Silty Sand 5YR 6/4	SC					
2.0				100	Clayey Silty Sand 5YR 6/4	SC					
2.5				100	Clayey Silty Sand 5YR 6/4	SC					
3.0				100	Clayey Silty Sand 5YR 6/4	SC					
3.5				100	Clayey Silty Sand 5YR 6/4	SC					
4.0				100	Clayey Silty Sand 5YR 6/4	SC					
4.5				100	Clayey Silty Sand 5YR 6/4	SC					
5.0				100	Silty Sand 5YR 7/2	SM					
5.5				100	Silty Sand 5YR 7/2	SM					
6.0				100							

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/31  
 LOCATION ID: 0245 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: By 2" pipe w/ cap marked 11-B  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5					10YR 5/4 Clayey Silty Sand	SM					
1.0					10YR 5/4 Clayey Silty Sand	SM					
1.5					10YR 5/4 Clayey Silty Sand	SM					
2.0					10YR 5/4 Clayey Silty Sand	SM					
2.5					10YR 5/4 Clayey Silty Sand	SM					
3.0					10YR 5/4 Clayey Silty Sand	SM					
3.5					10YR 5/4 Clayey Silty Sand	SM					
4.0					10YR 5/4 Clayey Silty Sand	SM					
4.5					10YR 5/4 Clayey Silty Sand	SM					
5.0					10YR 5/4 Clayey Silty Sand	SM					
5.5					10YR 5/4 Clayey Silty Sand	SM					
6.0					10YR 5/4 Clayey Silty Sand	SM					

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTD 154 DATE: 9/2

LOCATION ID: 0246 BORE HOLE DEPTH (FT): 6.0

BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: Gravel Pit, a 50' east of Road  
on west side of Pit. Southern most location

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.54R 6/4 clayey silty sand	sn					
1.0					7.54R 6/4 clayey silty sand	sn					
1.5					7.57R 5/4 clayey silty sand	sn					
2.0					7.57R 5/4 clayey silty sand	sn					
2.5					7.57R 7/4 clayey silty sand	sn					
3.0					7.57R 7/4 clayey silty sand	sn					
3.5					7.57R 7/4 clayey silty sand	sn					
4.0					7.57R 7/4 clayey silty sand	sn					
4.5					7.57R 7/4 clayey silty sand	sn					
5.0					7.57R 7/4 clayey silty sand	sn					
5.5					7.57R 7/4 clayey silty sand	sn					
6.0					7.57R 7/4 clayey silty sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/2/94  
 LOCATION ID: 0247 BORE HOLE DEPTH (FT): 3  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Gravel Pit. West side of Pit approx 50' east of road. Furthest location west In washout area  
 COMMENTS: See below  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	clayey Silty Sand SYR 6/4	SC					
1.0				100	clayey Silty Sand SYR 6/4	SC					
1.5				100	clayey Silty Sand SYR 6/4	SC				rock fragments	
2.0				100	clayey Silty Sand SYR 6/4	SC				rock fragments	
2.5				100	clayey Silty Sand SYR 6/4	SC					
3.0				100	clayey Silty Sand SYR 6/4	SC					
					Hit obstruction at 3'						
					Drilled adjacent hole						
					hit obstruction at 3' again.						
					Sample from 1.5-2.0'						

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 9/2/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETD154 DATE: 9/2/94  
 LOCATION ID: 0248 BORE HOLE DEPTH (FT): 5.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Gravel Pit. 75' east of road. Northern end  
sample area outside of pit area  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand SYR 6/4	SC				Rocks, Organics	
1.0				100	Clayey Silty Sand SYR 6/4	SC				rocks	
1.5				100	Clayey Silty Sand SYR 6/4	SC					
2.0				100	Clayey Silty Sand SYR 6/4	SC					
2.5				100	Clayey Silty Sand SYR 6/4	SC				rocks	
3.0				100	Clayey Silty Sand SYR 6/4	SC					
3.5				100	Clayey Silty Sand SYR 6/4	SC					
4.0				100	Clayey Silty Sand SYR 6/4	SC					
4.5				100	Clayey Silty Sand SYR 6/4	SC					
5.0				100	Clayey Silty Sand SYR 6/4	SC					
5.5				100	Clayey Silty Sand SYR 6/4	SC					
					Hil obstruction at 5.5'						
					stop d sample						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Rock Min 9/2/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

# SOIL BORING LOG

SITE ID: KRTL154 DATE: 9/2/94

LOCATION ID: 0249 BORE HOLE DEPTH (FT): 6

BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: Gravel Pit. In Pit about 20' from edge.  
~100' from east of road

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): P. Kim

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	clayey silty sand SYR 6/4	SC				Styrofoam, rocks	
1.0				100	clayey silty sand SYR 6/4	SC				rock debris	
1.5				100	clayey silty sand SYR 6/4	SC					
2.0				100	clayey silty sand SYR 6/4	SC					
2.5				100	clayey silty sand SYR 6/4	SC					
3.0				100	clayey silty sand SYR 6/4	SC					
3.5				100	clayey silty sand SYR 6/4	SC					
4.0				100	clayey silty sand SYR 6/4	SC					
4.5				100	clayey silty sand SYR 6/4	SC					
5.0				100	clayey silty sand SYR 6/4	SC					
5.5				100	clayey silty sand SYR 6/4	SC					
6.0				100	clayey silty sand SYR 6/4	SC					

### SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

### CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED  
P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

P. Kim 9/2/94  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 9/2LOCATION ID: 0250 BORE HOLE DEPTH (FT): \_\_\_\_\_BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Gravel P.T., Approx 100' east of Road, Down in  
Entrance to Gravel pit. eastern most Auger location.COMMENTS: Hit wooden obstruction at 2.5' collected sample  
from 3 holes within 2' radius 1.5 - 2.5' deep

FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					100% 10YR 6/4 Clayey Silty Sand.	SM					
1.0					10YR 4/4 Clayey Silty Sand	SM					
1.5					10YR 4/4 Clayey Silty Sand	SM					
2.0					10YR 4/4 Clayey Silty Sand	SM					
2.5					10YR 4/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
9/2

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLD 154 DATE: 9/1/94  
 LOCATION ID: 0251 BORE HOLE DEPTH (FT): 5.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Dip 5 Test West Side of Road Far  
western depression approx 75' from road North side of depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pkm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand SYR 5/4	SC					
1.0				100	Clayey Silty Sand SYR 7/3	SC					
1.5				100	Clayey Silty Sand SYR 7/3	SC					
2.0				100	Clayey Silty Sand SYR 7/3	SC					
2.5				100	Clayey Silty Sand SYR 7/3	SC					
3.0				100	Clayey Silty Sand SYR 7/3	SC					
3.5				100	Clayey Silty Sand SYR 7/3	SC					
4.0				100	Clayey Silty Sand SYR 7/3	SC					
4.5				100	Clayey Silty Sand SYR 7/3	SC					
5.0				100	Clayey Silty Sand SYR 7/3	SC					
5.5				100	Clayey Silty Sand SYR 7/3	SC					
					HIT OBSTRUCTION AT 5.5'						
					STOP & SAMPLE						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRFLD 154 DATE: 9/1

LOCATION ID: 0252 BORE HOLE DEPTH (FT): \_\_\_\_\_

BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: D.P. 5 west, west side of Road, Far west  
Depression 275' from road south side

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5				100%	10YR 5/4 clayey silty sand	sn					
1.0					10YR 5/4 clayey silty sand	sn					
1.5					10YR 4/4 clayey silty sand	sn					
2.0					10YR 4/4 clayey silty sand	sn					
2.5		0001	A		10YR 4/4 clayey silty sand	sn				some organic material	
3.0					10YR 4/4 clayey silty sand	sn					
3.5					10YR 4/4 clayey silty sand	sn					
4.0					10YR 4/4 clayey silty sand	sn					
4.5					10YR 5/4 clayey silty sand	sn					
5.0					10YR 7/3 clayey silty sand	sn					
5.5					10YR 7/3 clayey silty sand	sn					
6.0					10YR 7/3 clayey silty sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL154 DATE: 9/1  
 LOCATION ID: 0153 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Dip 5 test west side of road a 50'  
southern most hole in depression centered between depressions  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 clayey silty sand	sn					
1.0					7.5 YR 5/4 clayey silty sand	sn					
1.5					7.5 YR 5/4 clayey silty sand	sn					
2.0					7.5 YR 5/4 clayey silty sand	sn					
2.5					7.5 YR 5/4 clayey silty sand	sn					
3.0					7.5 YR 5/4 clayey silty sand	sn					
3.5					7.5 YR 5/4 clayey silty sand	sn					
4.0					7.5 YR 5/4 clayey silty sand	sn					
4.5					7.5 YR 7/3 clayey silty sand	sn					
5.0					7.5 YR 7/3 clayey silty sand	sn					
5.5					7.5 YR 7/3 clayey silty sand	sn					
6.0					7.5 YR 7/3 clayey silty sand	sn					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL0154DATE: 9/1/94LOCATION ID: 0254BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Dip 5 Area. Just west of road (15') in depression on south side

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): P. Kim

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand SYR 5/4	SC				organics	
1.0				100	Clayey Silty Sand SYR 5/4	SC					
1.5				100	Clayey Silty Sand SYR 5/4	SC					
2.0				100	Clayey Silty Sand SYR 5/4	SC					
2.5				100	Clayey Silty Sand SYR 5/4	SC					
3.0	1	0001	A	100	Clayey Silty Sand SYR 7/3	SC				Cement?	
3.5				100	Clayey Silty Sand SYR 7/3	SC				San cementation	
4.0				100	Clayey Silty Sand SYR 7/3	SC				"	
4.5				100	Clayey Silty Sand SYR 7/3	SC				"	
5.0				100	Clayey Silty Sand SYR 7/3	SC				"	
5.5				100	Clayey Silty Sand SYR 7/3	SC				"	
6.0	✓			100	Clayey Silty Sand SYR 7/3	SC				"	

## SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
P. Kim 9/1/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/1  
 LOCATION ID: 0255 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIP 5 TEST, WEST of Road ~ 20' near center of Depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 clayey silty sand	sn					
1.0					7.5 YR 4/4 clayey silty sand	sn					
1.5					7.5 YR 4/4 clayey silty sand	sn					
2.0					7.5 YR 4/4 clayey silty sand	sn					
2.5					7.5 YR 5/4 clayey silty sand	sn					
3.0					7.5 YR 5/4 clayey silty sand	sn					
3.5					7.5 YR 4/4 clayey silty sand	sn					
4.0					7.5 YR 6/4 clayey silty sand	sn					
4.5					7.5 YR 7/3 clayey silty sand	sn					
5.0					7.5 YR 7/3 clayey silty sand	sn					
5.5					7.5 YR 7/3 clayey silty sand	sn					
6.0					7.5 YR 7/3 clayey silty sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: ERTLD154 DATE: 9/1/94  
 LOCATION ID: 0256 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIPS Area. Depression just west (15') from road.  
North side of depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): pkw

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 5/6	SC					
1.0				100	Clayey Silty Sand 5YR 5/6	SC					
1.5				100	Clayey Silty Sand 5YR 5/6	SC					
2.0				100	Clayey Silty Sand 5YR 5/6	SC					
2.5				100	Clayey Silty Sand 5YR 5/6	SC					
3.0		0001	A	100	Clayey Silty Sand 5YR 7/3	SC				Cementation	
3.5				100	Clayey Silty Sand 5YR 7/3	SC				4	
4.0				100	Clayey Silty Sand 5YR 7/3	SC				4	
4.5				100	Clayey Silty Sand 5YR 7/3	SC				4	
5.0				100	Clayey Silty Sand 5YR 7/3	SC				4	
5.5				100	Clayey Silty Sand 5YR 7/3	SC				4	
6.0				100	Clayey Silty Sand 5YR 7/3	SC				4	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

pkw 9/1/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 9/1  
 LOCATION ID: 0257 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Dip 5 test. First depression east of Road  
Southern End  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 1/4 Clayey Silty Sand	SC					
1.0					7.5 YR 5/4 Clayey Silty Sand	SC					
1.5					7.5 YR 5/4 Clayey Silty Sand	SC					
2.0					7.5 YR 5/4 Clayey Silty Sand	SC					
2.5					7.5 YR 5/4 Clayey Silty Sand	SC					
3.0					7.5 YR 5/4 Clayey Silty Sand	SC					
3.5					7.5 YR 5/4 Clayey Silty Sand	SC					
4.0					7.5 YR 6/4 Clayey Silty Sand	SC					
4.5					7.5 YR 6/4 Clayey Silty Sand	SC					
5.0					7.5 YR 8/4 Clayey Silty Sand	SC					
5.5					7.5 YR 8/4 Clayey Silty Sand	SC					
6.0					7.5 YR 8/4 Clayey Silty Sand	SC					

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: 1CRTL0154 DATE: 9/1/94  
 LOCATION ID: 0258 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIP S AREA. Depression just east of road (10')  
On north side of depression  
 COMMENTS: 0001 1/5 Sample of layer with metallic residues  
0002 is sample below metallic residues  
 FIELD REPRESENTATIVE(S): plm

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				60	Clayey Silty Sand 54R 5/6	SC					
1.0				100	Clayey Silty Sand 54R 5/6	SC					
1.5				100	Clayey Silty Sand 54R 5/6	SC					
2.0				100	Clayey Silty Sand 54R 5/6	SC					
2.5	↑	0001	A	100	Clayey Silty Sand 54R 5/6	SC				metallic residues	
3.0	↓	0002	A	100	Clayey Silty Sand 54R 5/6	SC				metallic residues (less than abv.)	
3.5				100	Clayey Silty Sand 54R 5/6	SC				metallic residues gone	
4.0				100	Clayey Silty Sand 54R 5/6	SC					
4.5				100	Clayey Silty Sand 54R 5/6	SC					
5.0				100	Clayey Silty Sand 54R 5/6	SC					
5.5				100	Clayey Silty Sand 54R 5/6	SC					
6.0				100	Clayey Silty Sand 54R 5/6	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTCD 154 DATE: 9/1  
 LOCATION ID: 0959 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Dip 5, East of Road & 20 East of Trench closest to Road  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	10YR 5/4 Clayey Silty Sand	SM					
1.0					10YR 5/4 Clayey Silty Sand	SM					
1.5					10YR 5/4 Clayey Silty Sand	SM					
2.0					10YR 5/4 Clayey Silty Sand	SM					
2.5					10YR 5/4 Clayey Silty Sand	SM					
3.0					10YR 6/4 Clayey Silty Sand	SM					
3.5					10YR 6/4 Clayey Silty Sand	SM					
4.0					10YR 7/4 Clayey Silty Sand	SM					
4.5					10YR 7/4 Clayey Silty Sand	SM					
5.0					10YR 7/4 Clayey Silty Sand	SM					
5.5					10YR 7/4 Clayey Silty Sand	SM					
6.0					10YR 7/4 Clayey Silty Sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 9/1/94  
 LOCATION ID: 0260 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIP 5 Area. Flat area east of road. East of  
nearest depression to road. Approx 75' east of road.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PEM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/4	SC					
1.0				100	Clayey Silty Sand 5YR 5/4	SC					
1.5				100	Clayey Silty Sand 5YR 5/4	SC					
2.0				100	Clayey Silty Sand 5YR 5/4	SC					
2.5		0001	A	100	Clayey Silty Sand 5YR 5/4	SC					
3.0				100	Clayey Silty Sand 5YR 5/4	SC					
3.5				100	Silty Sand 5YR 8/1	SM					
4.0				100	Silty Sand 5YR 8/1	SM					
4.5				100	Silty Sand 5YR 8/1	SM					
5.0				100	Silty Sand 5YR 8/1	SM					
5.5				100	Silty Sand 5YR 8/1	SM					
6.0				100	Silty Sand 5YR 8/1	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION

T - TRENCHING

B - BOREHOLE

O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL D 154 DATE: 9/1  
 LOCATION ID: 0261 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: R  
 LOCATION DESCRIPTION: DEP 5, EAST of Road 2 100' east 2<sup>nd</sup>  
Depression. Southern end.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 Clayey Silty Sand	SN					
1.0					7.5 YR 5/4 Clayey Silty Sand	SN					
1.5					7.5 YR 5/4 Clayey Silty Sand	SN					
2.0					7.5 YR 5/4 Clayey Silty Sand	SN					
2.5					7.5 YR 5/4 Clayey Silty Sand	SN					
3.0					7.5 YR 5/4 Clayey Silty Sand	SN					
3.5					7.5 YR 5/4 Clayey Silty Sand	SN					
4.0					7.5 YR 6/4 Clayey Silty Sand	SN					
4.5					10 YR 8/3 Clayey Silty Sand	SN					
5.0					10 YR 8/3 Clayey Silty Sand	SN					
5.5					10 YR 8/3 Clayey Silty Sand	SN					
6.0					10 YR 8/3 Clayey Silty Sand	SN					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Johnson 9/1  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTCD154 DATE: 9/1/94  
 LOCATION ID: 0262 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIP 5 Area. 2nd depression from road. Approx  
100' from road North side of depression  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 54R 5/4	SC					
1.0				100	Clayey Silty Sand 54R 5/4	SC				Wood fragments	
1.5				100	Clayey Silty Sand 54R 5/4	SC				Wood fragments	
2.0				100	Clayey Silty Sand 54R 5/4	SC				small amount	
2.5				100	Clayey Silty Sand 54R 5/4	SC				of metallic particles	
3.0				100	Clayey Silty Sand 54R 5/4	SC				rock frags.	
3.5				100	Clayey Silty Sand 54R 5/4	SC				cement/debris	
4.0				100	Clayey Silty Sand 54R 5/4	SC				"	
4.5				100	Clayey Silty Sand 54R 5/4	SC				"	
5.0				100	Clayey Silty Sand 54R 5/4	SC				"	
5.5				100	Clayey Silty Sand 54R 5/4	SC				"	
6.0				100	Clayey Silty Sand 54R 5/4	SC				"	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 9/1/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 15' DATE: 9/1

LOCATION ID: 263 BORE HOLE DEPTH (FT): 60

BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: Dip 5, East of Road, 2 centered between 2<sup>nd</sup> + 3<sup>rd</sup> depressions

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					10YR 5/8 clayey silty sand	sn					
1.0					10YR 5/8 clayey silty sand	sn					
1.5					10YR 5/4 clayey silty sand	sn					
2.0					10YR 5/4 clayey silty sand	sn					
2.5					10YR 5/4 clayey silty sand	sn					
3.0					10YR 5/4 clayey silty sand	sn					
3.5					10YR 7/4 clayey silty sand	sn					
4.0					10YR 7/4 clayey silty sand	sn					
4.5					10YR 7/4 clayey silty sand	sn					
5.0					10YR 7/4 clayey silty sand	sn					
5.5					10YR 7/4 clayey silty sand	sn					
6.0					10YR 7/4 clayey silty sand	sn					

## SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

MLK 9/1  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: LRTL0154DATE: 9/1/94LOCATION ID: 0264BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: 7COMMENTS: DIPS Area. Far eastern depression North side of depression ~ 200' from roadFIELD REPRESENTATIVE(S): PKU

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand $5YR 5/4$	SC					
1.0				100	Clayey Silty Sand $5YR 5/4$	SC				wood	
1.5				100	Clayey Silty Sand $5YR 5/4$	SC					
2.0				100	Clayey Silty Sand $5YR 5/4$	SC					
2.5				100	Clayey Silty Sand $5YR 5/4$	SC					
3.0				100	Clayey Silty Sand $5YR 5/4$	SC					
3.5		0001	A	100	Clayey Silty Sand $5YR 7/3$	SC				Cement	
4.0				100	Clayey Silty Sand $5YR 7/3$	SC				Cement	
4.5				100	Clayey Silty Sand $5YR 7/3$	SC				"	
5.0				100	Clayey Silty Sand $5YR 7/3$	SC				"	
5.5				100	Clayey Silty Sand $5YR 7/3$	SC				"	
6.0				100	Clayey Silty Sand $5YR 7/2$	SC				"	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRT2D 154 DATE: 9/1/94  
 LOCATION ID: 0264 0265 BORE HOLE DEPTH (FT): 4  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DIP 5, EAST of Road, 3rd depression  
Southern End.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM, JJ

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					Clayey Silty Sand, 5YR 5/4					Some Rock	
1.0					5YR 5/4 Clayey Silty Sand					fragments	
1.5					5YR 5/4 Clayey Silty Sand					"	
2.0					5YR 5/4 Clayey Silty Sand					"	
2.5					5YR 5/4 Clayey Silty Sand						
3.0					5YR 5/4 Clayey Silty Sand						
3.5					5YR 5/4 Clayey Silty Sand					Very Slight	
4.0					5YR 5/4 Clayey Silty Sand					cementation	
4.5					5YR 5/4 Clayey Silty Sand						
5.0					5YR 5/4 Clayey Silty Sand					Rock	
5.5					5YR 5/4 Clayey Silty Sand					fragment	
6.0					5YR 5/4 Clayey Silty Sand						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J, JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 1541 DATE: 9/2

LOCATION ID: 0267 0266 BORE HOLE DEPTH (FT): 6.0

BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A

LOCATION DESCRIPTION: Generator Site, 2 10' east of loop road.  
Re Sample Plan

COMMENTS: Re - Sample

FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/4 Clayey Silty Sand	SN				Constant	
1.0					7.5 YR 6/4 Clayey Silty Sand	SN					
1.5					7.5 YR 7/3 Clayey Silty Sand	SN					
2.0					7.5 YR 7/3 Clayey Silty Sand	SN					
2.5					7.5 YR 7/3 Clayey Silty Sand	SN					
3.0					7.5 YR 7/3 Clayey Silty Sand	SN					
3.5					7.5 YR 7/3 Clayey Silty Sand	SN					
4.0					7.5 YR 7/3 Clayey Silty Sand	SN					
4.5					7.5 YR 7/3 Clayey Silty Sand	SN					
5.0					7.5 YR 7/3 Clayey Silty Sand	SN					
5.5					7.5 YR 7/3 Clayey Silty Sand	SN					
6.0					7.5 YR 7/3 Clayey Silty Sand	SN					

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

## P - AIR PERCUSSION

T - TRENCHING  
B - BOREHOLE  
O - OTHER

9/2  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

**SOIL BORING LOG**

SITE ID: LRTLD 154 DATE: 9/2/94  
 LOCATION ID: 0267 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Generator Site. Between large concrete blocks  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pleary

**LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)**

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand SYR 5/6	SC				Rocks abundant	
1.0				100	Clayey Silty Sand SYR 5/6	SC					
1.5				100	Clayey Silty Sand SYR 5/6	SC					
2.0				100	Clayey Silty Sand SYR 5/6	SC					
2.5				100	Clayey Silty Sand SYR 5/6	SC					
3.0				100	Clayey Silty Sand SYR 5/6	SC					
3.2				100	Clayey Silty Sand SYR 5/6	SC					
3.5				100	Clayey Silty Sand SYR 5/6	SC					
4.0				100	Clayey Silty Sand SYR 5/6	SC					
4.5				100	Clayey Silty Sand SYR 5/6	SC					
5.0				100	Clayey Silty Sand SYR 5/6	SC					
5.5				100	Clayey Silty Sand SYR 5/6	SC					
6.0				100	Clayey Silty Sand SYR 5/6	SC					

**SAMPLE METHODS**

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Pleary 9/2/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLD154 DATE: 9/2/94  
 LOCATION ID: 0268 BORE HOLE DEPTH (FT): 5.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Generator Site on high area. Farthest from steel retaining wall.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): pkw

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	Clayey Silty Sand SYR S/4	SC				Rocks abundant	
1.0				100	Clayey Silty Sand SYR S/4	SC					
1.5				100	Clayey Silty Sand SYR S/4	SC					
2.0				100	Clayey Silty Sand SYR S/4	SC					
2.5		0001	A	100	Silty Sand (medium) SYR S/4	SM					
3.0				100	Silty Sand SYR S/4	SM					
3.5					Hit obstruction at 3.5'						
					none over, re-auger						
					obstruction at 3.5'						
					Sample from 2-3.5'						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

R. K. Miller 9/2/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KPTCD 154 DATE: 9/2/94  
 LOCATION ID: 0269 BORE HOLE DEPTH (FT): 5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Generator site next to steel retaining wall.  
On north side of wall.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Piran

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
.5				100	Clayey Silty Sand 54R 5/4	SC					
1.0				100	Clayey Silty Sand 54R 5/4	SC					
1.5				100	Clayey Silty Sand 54R 5/4	SC					
2.0				100	Clayey Silty Sand 54R 5/4	SC					
2.5				100	Clayey Silty Sand 54R 5/4	SC					
3.0				100	Clayey Silty Sand 54R 5/4	SC					
3.2				100	Clayey Silty Sand 54R 5/4	SC				Rock fragments	
3.5				100	Clayey Silty Sand 54R 5/4	SC				"	
4.0				100	Clayey Silty Sand 54R 5/4	SC				"	
4.5				100	Clayey Silty Sand 54R 5/4	SC				"	
5.0				100	Clayey Silty Sand 54R 5/4	SC				"	
					Obstruction at 5'						
					Stop & Sample						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTLD 15<sup>th</sup> DATE: 9/2  
 LOCATION ID: 0270 BORE HOLE DEPTH (FT): 3.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Generator Site, near South end of metal wall.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 6/4 Clayey Silty Sand	SN					
1.0					7.5 YR 6/4 Clayey Silty Sand	SN					
1.5		0001	A		7.5 YR 6/4 Clayey Silty Sand	SN					
2.0					7.5 YR 6/4 Clayey Silty Sand	SN					
2.5					7.5 YR 6/4 Clayey Silty Sand	SN					
3.0					7.5 YR 7/3 Clayey Silty Sand	SN					
					Hit OBSTRUCTION						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MLV 9/2  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLID 154 DATE: 8/30  
 LOCATION ID: 0271 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: North East Corner of fuselage  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 4/6 clayey silty sand	SM				slightly moist ↓	
1.0					7.5YR 4/6 clayey silty sand	SM					
1.5					7.5YR 4/6 clayey silty sand	SM					
2.0					7.5YR 4/6 clayey silty sand	SM					
2.5					7.5YR 6/4 clayey silty sand	SM					
3.0					7.5YR 6/4 clayey silty sand	SM					
3.5					7.5YR 8/4 clayey silty sand	SM					
4.0					7.5YR 8/4 clayey silty sand	SM					
4.5					7.5YR 8/4 clayey silty sand	SM					
5.0					7.5YR 8/4 clayey silty sand	SM					
5.5					7.5YR 8/4 clayey silty sand	SM					
6.0					7.5YR 8/4 clayey silty sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Johnson 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 8/30/94  
 LOCATION ID: 0272 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Package site. On south end of Package.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pear

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 54R 5/6	SC				Some rock debris	
1.0				100	clayey silty Sand 54R 5/6	SC					
1.5				100	Clayey Silty Sand 54R 5/6	SC					
2.0				100	Clayey Silty Sand 54R 5/6	SC					
2.5				100	Clayey Silty Sand 54R 5/6	SC					
3.0				100	Clayey Silty Sand 54R 5/6	SC					
3.5				100	Clayey Silty Sand 54R 5/6	SC					
4.0				100	Clayey Silty Sand 54R 6/4	SM				Some cementation	
4.5				100	Clayey Silty Sand 54R 6/4	SM				Some cementation	
5.0				100	Clayey Silty Sand 54R 6/4	SM				Cementation	
5.5				100	Clayey Silty Sand 54R 6/4	SM				Cementation	
6.0				100	Clayey Silty Sand 54R 6/4	SM				Cementation	

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Pear 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/30  
 LOCATION ID: 0273 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 2 100' north of fuselage. south eastern hole.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 Clayey Silty Sand	SN					
1.0					7.5 YR 5/4 Clayey Silty Sand	SN					
1.5					7.5 YR 5/4 Clayey Silty Sand	SN					
2.0					7.5 YR 5/4 Clayey Silty Sand	SN					
2.5					7.5 YR 5/4 Clayey Silty Sand	SN					
3.0					7.5 YR 5/4 Clayey Silty Sand	SN					
3.5					7.5 YR 5/4 Clayey Silty Sand	SN					
4.0					7.5 YR 8/4 Clayey Silty Sand	SN					
4.5					7.5 YR 8/4 Clayey Silty Sand	SN					
5.0					7.5 YR 8/4 Clayey Silty Sand	SN					
5.5					7.5 YR 8/4 Clayey Silty Sand	SN					
6.0					7.5 YR 8/4 Clayey Silty Sand	SN					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
MMK 8/30/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTCD154 DATE: 8/30/94  
 LOCATION ID: 0274 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Approx 100' north of fuselage For West  
location of the 3 in the debris area AWD sample  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	clayey silty sand 5YR 5/6	SC					
1.2				100	clayey silty sand 5YR 5/6	SC					
1.5				100	clayey silty sand 5YR 5/6	SC					
2.0				100	clayey silty sand 5YR 5/6	SC					
2.5		0001	A	100	clayey silty sand 5YR 5/6	SC					
3.0				100	clayey silty sand 5YR 5/6	SC					
3.5				100	clayey silty sand 5YR 6/4	SC				Same concentration	
4.0				100	silty sand 5YR 6/4	SM				"	
4.5				100	silty sand 5YR 6/4	SM				"	
5.0				100	silty sand 5YR 6/4	SM				concentration	
5.5				100	silty sand 5YR 6/4	SM				concentration	
6.0				100	silty sand 5YR 6/4	SM				concentration	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION

T - TRENCHING

B - BOREHOLE

O - OTHER

PKM 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/30  
 LOCATION ID: 0275 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 2100' North of fuselge, northern most in group  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 4/6 Clayey Silty sand	SN					
1.0					7.5YR 4/6 Clayey Silty Sand	SN					
1.5					7.5YR 4/6 Clayey Silty Sand	SN					
2.0					7.5YR 4/6 Clayey Silty Sand	SN					
2.5					7.5YR 4/6 Clayey Silty Sand	SN					
3.0					7.5YR 4/6 Clayey Silty Sand	SN					
3.5					7.5YR 4/6 Clayey Silty Sand	SN					
4.0					7.5YR 6/4 Clayey Silty Sand	SN					
4.5					7.5YR 8/4 Silty Sand	SN					
5.0					7.5YR 8/4 Silty Sand	SN					
5.5					7.5YR 8/4 Silty Sand	SN					
6.0					7.5YR 8/4 Silty Sand	SN					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM ✓ 8/30/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/24/94  
 LOCATION ID: 0276 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: ART test area. Test bed pad NE easternmost pad.  
Next to mound  
 COMMENTS: Sample interval 2.5-6.0' Sample Time 0915  
 FIELD REPRESENTATIVE(S): PM and Brooks

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Medium Sand S <sub>YR</sub> 5/4 Some Debris	SP				90% Sand 10% Sil	
1.0				100	Medium Sand S <sub>YR</sub> 5/4	SP				80% Sand 20% Sil	
1.5				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 4/4	SM				70% Sand 30% Sil	
2.0				100	Clayey Sand <sup>FG</sup> S <sub>YR</sub> 4/4	SC				70/10/20	
2.5				100	Silty Clayey Sand <sup>FG</sup> S <sub>YR</sub> 4/4	SM				70/20/10	
3.0				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 4/4 Possible caliche chunks	SM				70/70	
3.5				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4	SM				60/40	
4.0				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4	SM				60/40	
4.5				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4	SM				60/40	
5.0				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4	SM				60/40	
5.5				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4 Some cementation	SM				60/40	
6.0				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4 "	SM				60/40	
6.5				100	Silty Sand <sup>FG</sup> S <sub>YR</sub> 6/4 "	SM				60/40	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Rek. Miller 8/24/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/24/94  
 LOCATION ID: 0277 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Area Test Bed Pad, SE most  
Pad from center of crater  
 COMMENTS: Sample time 0915  
 FIELD REPRESENTATIVE(S): Jeff Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0-6"				100	Light Brownish Sand, 6/2 10YR	SM					
6"-1.5'				100	gray	SM					
1.5'-2.5'				100	Dark Yellowish Brown 10YR 4/4	SM					
2.5'-3.0'				100	Brown silty sand 7.5YR 5/4	SM					
3.0'-3.5'			Transition	100	Very fine sand of silt	SM					
3.5'-4.0'			0001 A	100	5YR 8/2	SM					
4.0'-4.5'				100	"						
4.5'-5.0'				100	"						
5.0'-5.5'				100	" w/some small gravel						
5.5'-6.0'				100	"						
6.0'-6.5'				100	"						

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/24/94  
 LOCATION ID: 0278 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: APT Test area. Pad furthest to the NW. Test west of 776  
 COMMENTS: Sample at 1145  
 FIELD REPRESENTATIVE(S): P Middlebrook

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
1.0				100	Test debris (plaster), w/ medium sand	SP					
				100	2.5 YR 5/2 clayey sand 5 YR 4/4, some debris	SC					
				100	clayey silty sand 5 YR 4/4	SM					
				100	clayey silty sand 5 YR 4/4	SM					
				100	silty sand 5 YR 4/4	SM					
				100	silty sand 7.5 YR 6/2	SM					
				100	silty sand 7.5 YR 6/2	SM					
				100	silty sand 7.5 YR 6/2	SM					
				100	silty sand 7.5 YR 6/2 w/ some	SM					
				100	gibbles cement??	SM					
				100	silty sand 7.5 YR 6/2	SM					
				100	silty sand 7.5 YR 6/2	SM					
				100	silty sand 7.5 YR 6/2	SM					

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

P. Middlebrook 8/24/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL 154 DATE: 8/24/94  
 LOCATION ID: 0279 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: South West POD  
 COMMENTS: Augered in center of Debris on Pod.  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0-0.5					7.5YR 6/4 light Brown fine Sand	SP					
1.0					7.5YR 5/4 light Brown fine Sand	SP					
1.5					7.5YR 4/4 Brown to Dark Brown Sandy clay w/ sand.	CL					
2.0					7.5YR 4/4 Brown to Dark Brown Sandy clay	CL					
2.5					7.5YR 5/4 Brown sand w/ fines	SM					
3.0		0001	A	100	10YR 5/6 Yellowish Brown sand/silt	SM					
3.5					10YR 5/6 Yellowish Brown sand	SM					
4.0					10YR 5/6 Yellowish Brown sand	SM					
4.5					5YR 6/2 w/ coarse gravel Pinkish white sand/silt	ML					
6.0					5YR 8/2 sandy sand	ML					
6.5					5YR 8/2 silty sand	ML					
6.0					5YR 8/2 silty sand	ML					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/24  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL D 1574 DATE: 8/24/94  
 LOCATION ID: 0280 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: 1  
 LOCATION DESCRIPTION: Debris pile 50' west of location 0278  
 COMMENTS: 1235 Start boring 1255 Sample  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Medium Sand 5 YR 5/4 w/Debris	SP					
1.0				100	Fine Sand 5 YR 5/4 w/Debris	SP					
1.5				100	Fine Sand 5 YR 5/4 w/Debris	SP					
2.0				100	Silty Sand 2.5 YR 4/4	SM					
2.5		0001	A	100	Silty Sand 2.5 YR 4/4	SM					
3.0				100	Silty Sand 7.5 YR 6/2	SM					
3.5				100	Silty Sand 7.5 YR 6/2	SM					
4.0				100	Silty Sand 7.5 YR 6/2 w/ cement	SM					
4.5				100	Silty Sand 7.5 YR 6/2	SM					
5.0				100	Silty Sand 7.5 YR 6/2	SM					
5.5				100	Silty Sand 7.5 YR 6/2	SM					
6.0				100	Silty Sand 7.5 YR 6/2	SM					
6.5				100	Silty Sand 7.5 YR 6/2	SM					
7.0				100	Silty Sand 7.5 YR 6/2	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 8/24/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/14/94  
 LOCATION ID: 0281 BORE HOLE DEPTH (FT): 12  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Large dirt mound North of westernmost PAD  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Teff Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					10YR 5/6 Sand	SM					
1.0					10YR 5/6 Sand	SM					
1.5					7.5 YR 7/2 Silty Sand w/ white pieces of rust debris	SM					
2.0					7.5 YR 7/2 Silty Sand w/whr deb	SM					
2.5					7.5 YR 7/2 Silty Sand w/whr deb	SM					
3.0		0001	A	100%	7.5 YR 7/2 Silty Sand w/whr deb	SM					
3.5					7.5 YR 7/2 Silty Sand w/whr deb	SM					
4.0					7.5 YR 7/2 Silty Sand w/whr deb	SM					
4.5					7.5 YR 7/2 Silty Sand w/whr deb	SM					
5.0					7.5 YR 7/2 Silty Sand w/whr deb	SM					
5.5					7.5 YR 7/2 Silty Sand w/whr deb	SM					
6.0					7.5 YR 7/2 Silty Sand w/whr deb	SM					

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/24/94  
 LOCATION ID: 0282 BORE HOLE DEPTH (FT): 4  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 25' North of 0278 (Northwesternmost Pad)  
 COMMENTS: Sample at 1405 went into cemented layer at 2'. Bored to 4' in layer. Bored adjacent hole to 2' to collect sufficient sample.  
 FIELD REPRESENTATIVE(S): PEM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5		0001	A	100	Silty Sand <sup>f</sup> 54R 4/4	SM					
1.0				100	Silty Sand <sup>f</sup> 7.5 YR 5/6	SM					
1.5				100	Silty Sand <sup>f</sup> 7.5 YR 6/4 w/cement	SM					
2.0				100	Silty Sand <sup>f</sup> 54R 7/2 mostly cement	SM					
2.5				100	Silty Sand <sup>f</sup> 54R 7/2 mostly cement	SM					
3.0				100	Silt 54R 7/2 mostly cement	ML					
3.5				100	Silt 54R 7/2 mostly cement	ML					
4.0				100	Silt 54R 7/2 mostly cement	ML					
4.5					Stopped, well into a cement layer Collect sample from 0-2.0'						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PEM 8/24/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTUD 154 DATE: 8/24  
 LOCATION ID: 0283 BORE HOLE DEPTH (FT): 5.5'  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Small Dirt Mound North East of South east Pad.  
 COMMENTS: Hit obstruction at 5.5'  
 FIELD REPRESENTATIVE(S): Jeff Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5					7.5 YR 5/4 Silty Sand	SM					
1.0					7.5 YR 5/4 Silty Sand	SA					
1.5					5 YR 3/4 Silty Sand	SM					
2.0					5 YR 3/4 Silty Sand	SM					
2.5					7.5 YR 5/4 Silty Sand	SM					
3.0					7.5 YR 6/4 Silty Sand OF Sand	ML					
3.5					7.5 YR 6/4 UFSand	ML					
4.0					7.5 YR 6/4 Very Fine Sand	ML					
4.5					7.5 YR 6/4 Very Fine Sand	ML					
5.0					7.5 YR 7/2 Very Fine Sand	ML					
5.5					Hit obstruction not						
6.0					Able to Auger deeper						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Jeff Johnson 8/24  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KETLD 154 DATE: 8/25/94  
 LOCATION ID: 0244 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 15' North of SEasternmost Pad  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): P/KM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand SYR 4/4	SC					
1.2				100	Clayey Silty Sand SYR 4/4	SC					
1.5				100	Clayey Silty Sand SYR 4/4	SC					
2.0				100	Clayey Silty Sand SYR 4/4	SC					
2.5		0001	A	100	Silty Sand SYR 4/4	SM					
3.0				100	Silty Sand <del>7.5 YR 7/2</del> w/cement	SM					
3.5				100	Silty Sand 7.5 YR 7/2 w/cement	SM					
4.0				100	Silty Sand 7.5 YR 7/2 w/cement	SM					
4.5				100	Silty Sand 7.5 YR 7/2 w/cement	SM					
5.0				100	Silty Sand 7.5 YR 7/2 w/cement	SM					
5.5				100	Silty Sand 7.5 YR 7/2	SM					
6.0				100	Silty Sand 7.5 YR 7/2	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

P/KM 8/25/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/25  
 LOCATION ID: 0285 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: 33' EAST of North EAST corner of South East Pad.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					7.5 YR 5/4 Silty sand	SM					
1.0					7.5 YR 5/4 Silty sand	SM					
1.5					7.5 YR 5/4 Silty sand	SM					
2.0					7.5 YR 5/4 Silty sand	SM					
2.5					7.5 YR 5/4 Silty sand	SM					
3.0					7.5 YR 5/4 Silty sand	SM					
3.5					7.5 YR 7/4 Silty sand	ML					
4.0					7.5 YR 8/2 Silty sand	ML					
4.5					7.5 YR 8/2 Silty sand	ML					
5.0					7.5 YR 8/2 Silty sand	ML					
5.5					7.5 YR 8/2 Silty sand	ML					
6.0					7.5 YR 8/2 Silty sand	ML					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

C-123



## SOIL BORING LOG

SITE ID: KRTL0154DATE: 8/31/94LOCATION ID: 0286BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: H. Fi Test Bed A. Easternmost crater. In center of crater. On west side of crater.

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
5				100	clayey silty sand 5YR 4/4	SC					
1.2				100	clayey silty sand 5YR 4/4	SC					
1.5				100	clayey silty sand 5YR 4/4	SC					
2.0				100	clayey silty sand 5YR 4/4	SC					
2.5			A	100	clayey silty sand 5YR 4/4	SC					
3.0				100	clayey silty sand 5YR 4/4	SC					
3.5				100	clayey silty sand 5YR 4/4	SC					
4.0				100	clayey silty sand 5YR 4/4	SC					
4.5				100	clayey silty sand 5YR 4/4	SC					
5.0				100	clayey silty sand 5YR 4/4	SC					
5.5				100	clayey silty sand 5YR 4/4	SC					
6.0				100	clayey silty sand 5YR 4/4	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

C-124

## SOIL BORING LOG

SITE ID: KRTL 154 DATE: 8/31  
 LOCATION ID: 0287 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: R  
 LOCATION DESCRIPTION: North East Corner of Eastern most  
Crater in Hi Fi test Bed  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5YR 4/4 Clayey Silty Sand	SN					
1.0					7.5YR 4/4 Clayey Silty Sand	SN					
1.5					7.5YR 4/4 Clayey Silty Sand	SN					
2.0					7.5YR 4/4 Clayey Silty Sand	SN					
2.5					7.5YR 6/4 Clayey Silty Sand	SN					
3.0					7.5YR 6/4 Clayey Silty Sand	SN					
3.5					7.5YR 6/4 Clayey Silty Sand	SN					
4.0					7.5YR 6/4 Clayey Silty Sand	SN					
4.5					7.5YR 6/4 Clayey Silty Sand	SN					
5.0					7.5YR 6/4 Clayey Silty Sand	SN					
5.5					7.5YR 6/4 Clayey Silty Sand	SN					
6.0					7.5YR 6/4 Clayey Silty Sand	SN					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/31  
 LOCATION ID: 0288 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Southwest Lip of eastern most CRATER  
Hi Fi Test Bed  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 4/4 Clayey Silty Sand	SM					
1.0					7.5 YR 4/4 Clayey Silty Sand	SM					
1.5					7.5 YR 4/4 Clayey Silty Sand	SM					
2.0					7.5 YR 4/4 Clayey Silty Sand	SM					
2.5					7.5 YR 7/3 Clayey Silty Sand	SM					
3.0					7.5 YR 7/3 Clayey Silty Sand	SC					
3.5					7.5 YR 7/3 Clayey Silty Sand	SC					
4.0					7.5 YR 7/3 Clayey Silty Sand	SC					
4.5					7.5 YR 7/3 Clayey Silty Sand	SC					
5.0					7.5 YR 7/3 Clayey Silty Sand	SC					
5.5					7.5 YR 7/3 Clayey Silty Sand	SC					
6.0					7.5 YR 7/3 Clayey Silty Sand	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

Johnson 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

C-126

## SOIL BORING LOG

SITE ID: KRTL154 DATE: 8/31/94  
 LOCATION ID: 0289 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: H. F. Test Bed A. Center Crater on east side of crater rim  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
.5				100	Clayey Silty Sand 5YR 4/4	SC					
1.0				100	Clayey Silty Sand 5YR 4/4	SC					
1.5				100	Clayey Silty Sand 5YR 4/4	SC					
2.0				100	Clayey Silty Sand 5YR 4/4	SC					
2.5				100	Clayey Silty Sand 5YR 6/3	SC				Cement	
3.0				100	Clayey Silty Sand 5YR 6/3	SC				Cement	
3.5				100	Clayey Silty Sand 5YR 6/3	SC				Cement	
4.0				100	Clayey Silty Sand 5YR 6/3	SC				Cement	
4.5				100	Clayey Silty Sand 5YR 6/3	SC				Cement	
5.0				100	Clayey Silty Sand 5YR 6/3	SC					
5.5				100	Clayey Silty Sand 5YR 6/3	SC					
6.0				100	Clayey Silty Sand 5YR 6/3	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/31  
 LOCATION ID: 0290 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 3 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Western Edge of Center Crane -  
Hi-Fi-105 Bed.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					104R 5/4 Clayey Silty Sand	SA					
1.0					104R 5/4 Clayey Silty Sand	SA					
1.5					104R 7/3 Clayey Silty Sand	SA					
2.0					104R 7/3 Clayey Silty Sand	SA					
2.5					104R 7/3 Clayey Silty Sand	SA					
3.0					104R 7/3 Clayey Silty Sand	SA					
3.5					104R 7/3 Clayey Silty Sand	SA					
4.0					104R 7/3 Clayey Silty Sand	SA					
4.5					104R 7/3 Clayey Silty Sand	SA					
5.0					104R 7/3 Clayey Silty Sand	SA					
5.5					104R 7/3 Clayey Silty Sand	SA					
6.0					104R 7/3 Clayey Silty Sand	SA					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/31/94  
 LOCATION ID: 0291 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Hi Fi Test Bed A. Center Center. On South Side of crater rim  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): J. M. M.

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	clayey silty sand	SYR 4/4	SC				
1.2				100	clayey silty sand	SYR 4/4	SC			wood, rock debris	
1.5				100	clayey silty sand	SYR 4/4	SC			rocks	
2.0				100	clayey silty sand	SYR 4/4	SC			rocks	
2.5		0401	A	100	clayey silty sand	SYR 4/4	SC			rocks, cementation	
3.0				100	clayey silty sand	SYR 6/3	SC			some cementation	
3.5				100	clayey silty sand	SYR 6/3	SC			some cementation	
4.0				100	clayey silty sand	SYR 6/3	SC			some cement	
4.5				100	clayey silty sand	SYR 6/3	SC			"	
5.0				100	clayey silty sand	SYR 6/3	SC			"	
5.5				100	clayey silty sand	SYR 6/3	SC			"	
6.0				100	clayey silty sand	SYR 6/3	SC			"	

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
J. M. M. 8/31/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/31  
 LOCATION ID: 0292 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: western edge of western most crater  
Witi near Bar  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	10YR 7/4 clayey silty sand	sn					
1.0					10YR 7/4 clayey silty sand	sn					
1.5					10YR 5/4 clayey silty sand	sn					
2.0					10YR 5/4 clayey silty sand	sn					
2.5					10YR 6/4 clayey silty sand	sn					
3.0					10YR 6/4 clayey silty sand	sn					
3.5					10YR 7/4 clayey silty sand	sn					
4.0					10YR 7/4 clayey silty sand	sn					
4.5					10YR 7/4 clayey silty sand	sn					
5.0					10YR 7/4 clayey silty sand	sn					
5.5					10YR 7/4 clayey silty sand	sn					
6.0					10YR 7/4 clayey silty sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/31/94  
 LOCATION ID: 0293 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Hi Fi Test Bed A - Furthest west crater.  
On East rim of crater.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): JKR

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
.5				100	Clayey Silty Sand 5 YR 4/4	SC				Cement debris	
1.0				100	Clayey Silty Sand 5 YR 4/4	SC				Cement debris	
1.5				100	Clayey Silty Sand 5 YR 4/4	SC				Cement debris	
2.0				100	Clayey Silty Sand 5 YR 4/4	SC				Cement debris	
2.5				100	Clayey Silty Sand 5 YR 6/3	SC				Rock debris	
3.0				100	Clayey Silty Sand 5 YR 6/3	SC				Rock debris	
3.5				100	Clayey Silty Sand 5 YR 6/3	SC				Rock debris	
4.0				100	Clayey Silty Sand 5 YR 6/3	SC				Rock	
4.5				100	Clayey Silty Sand 5 YR 6/3	SC					
5.0				100	Clayey Silty Sand 5 YR 6/3	SC					
5.5				100	Clayey Silty Sand 5 YR 6/3	SC					
6.0				100	Clayey Silty Sand 5 YR 6/3	SC					

• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
JKR 8/31/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/31  
 LOCATION ID: 0294 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Northern edge of Western Mass Crater  
Iti Fi rest Bed  
 COMMENTS: \$  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	10YR 5/4 Clayey Silty Sand	SM					
1.0					10YR 5/4 Clayey Silty Sand	SM					
1.5					10YR 5/4 Clayey Silty Sand	SM					
2.0					10YR 5/4 Clayey Silty Sand	SM					
2.5					10YR 7/4 Clayey Silty Sand	SM					
3.0					10YR 7/4 Clayey Silty Sand	SM					
3.5					10YR 7/4 Clayey Silty Sand	SM					
4.0					10YR 7/4 Clayey Silty Sand	SM					
4.5					10YR 7/4 Clayey Silty Sand	SM					
5.0					10YR 7/4 Clayey Silty Sand	SM					
5.5					10YR 7/4 Clayey Silty Sand	SM					
6.0					10YR 7/4 Clayey Silty Sand	SM					

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/31/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL034 DATE: 8/31/94  
 LOCATION ID: 0295 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Crater/Debris Pile north of westernmost test bed.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Pear

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand SYR 4/4	SC					
1.2				100	Clayey Silty Sand SYR 4/4	SC					
1.5				100	Clayey Silty Sand SYR 4/4	SC				Rock Debris	
2.0				100	Clayey Silty Sand SYR 4/4	SC				Rock Debris	
2.5		0001	A	100	Clayey Silty Sand SYR 4/4	SC				cementation	
3.0				100	Clayey Silty Sand SYR 6/3	SC				cementation	
3.5				100	Clayey Silty Sand SYR 6/3	SC				cementation	
4.0				100	Clayey Silty Sand SYR 6/3	SC				"	
4.5				100	Clayey Silty Sand SYR 6/3	SC				"	
5.0				100	Clayey Silty Sand SYR 6/3	SC				"	
5.5				100	Clayey Silty Sand SYR 6/3	SC				"	
6.0				100	Clayey Silty Sand SYR 6/3	SC				"	

\*\* SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

\* CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL 154DATE: 9/2LOCATION ID: 0296BORE HOLE DEPTH (FT): 5.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: DCT - HEST, near 1st small dirt Pile west of Road.

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.57R 3/4 Silty Sand	SC					
1.0					7.57R 5/4 Silty Sand	SC					
1.5					7.57R 7/4 Silty Sand	SC					
2.0					7.57R 4/4 Silty Sand	SC					
2.5			A		7.57R 4/4 Silty Sand	SC					
2.9					7.57R 6/4 Clayey Silty Sand	SC					
3.0					7.57R 6/4 Clayey Silty Sand	SC					
3.5					7.57R 6/4 Clayey Silty Sand	SC					
4.0					7.57R 6/4 Clayey Silty Sand	SC					
4.5					7.57R 6/4 Clayey Silty Sand	SC					
5.0					7.57R 6/4 Clayey Silty Sand	SC					
					OBSTRUCTION						

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 9/2/94  
 LOCATION ID: 0297 BORE HOLE DEPTH (FT): 3.5  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DCT Hest. Approx 200' west of road. Next to dirt mound.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Penn.

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand 5YR 5/6	SC				abundant reds	
1.0				100	clayey silty sand 5YR 5/6	SC					
1.5				100	clayey silty sand 5YR 5/6	SC					
2.0				100	clayey silty sand 5YR 5/6	SC					
2.5				100	clayey silty sand 5YR 5/6	SC					
3.0				100	silty sand 5YR 7/5	SM					
3.5					Obstruction at 3.5'						
					Re-augered hole. Hit						
					obstruction again						
					sample from 2-3.5'						

•• SAMPLE METHODS  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

• CONSTRUCTION METHODS  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRT-D154 DATE: 9/2  
 LOCATION ID: 0298 BORE HOLE DEPTH (FT): 3.5  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DCT HST, South West of 2nd dirr pile  
from Road. South South east of Decoy Bank  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.54R 5/6 Clayey Silty Sand	SM					
1.0					7.54R 5/6 Clayey Silty Sand	SM					
1.5					7.54R 5/6 Clayey Silty Sand	SM					
2.0					7.54R 5/6 Clayey Silty Sand	SM					
2.5					7.54R 5/6 Clayey Silty Sand	SM					
3.0					7.54R 5/6 Clayey Silty Sand	SM					
3.5					7.54R 7/4 Clayey Silty Sand	SM					
					Obstruction						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTUD 154 DATE: 9/2  
 LOCATION ID: 0299 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DCT Hest, continued south west of  
2nd Pier Monte. south of Decon Bunker  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 7/3 Clayey Silty Sand	SH					
1.0					7.5 YR 7/3 Clayey Silty Sand	SH					
1.5					7.5 YR 7/3 Clayey Silty Sand	SH					
2.0					7.5 YR 7/3 Clayey Silty Sand	SH					
2.5					7.5 YR 7/3 Clayey Silty Sand	SH					
3.0					7.5 YR 7/3 Clayey Silty Sand	SH					
3.5					7.5 YR 7/3 Clayey Silty Sand	SH					
4.0					7.5 YR 7/3 Clayey Silty Sand	SH					
4.5					7.5 YR 7/3 Clayey Silty Sand	SH					
5.0					7.5 YR 7/3 Clayey Silty Sand	SH					
5.5					7.5 YR 7/3 Clayey Silty Sand	SH					
6.0					7.5 YR 7/3 Clayey Silty Sand	SH					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: LRCLD154 DATE: 9/2/94  
 LOCATION ID: 0300 BORE HOLE DEPTH (FT): 3  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: DCT + test Far west sample in open area  
Probably 700' from fence line 100' south of large dirt pile  
 COMMENTS: See below  
 FIELD REPRESENTATIVE(S): J Kim

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	clayey silty sand S4R 5/4	SC					
1.0				100	clayey silty sand S4R 5/4	SC					
1.5				100	clayey silty sand S4R 5/4	SC					
2.0		0301	A	100	silty sand S4R 7/3	SM					
2.5				100	silty sand S4R 7/3	SM					
3.0				100	silty sand S4R 7/3	SM					
					Hit obstruction in 3 holes at 3'						
					Stop & Sample						

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

P. K. Miller 9/2/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154 DATE: 8/29  
 LOCATION ID: 0301 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Southern end of large Crater, South east of Geophysics Area 3  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	7.5 YR 5/8 Silty Sand	SN					
1.0					7.5 YR 5/8 clayey Silty Sand	SA					
1.5					7.5 YR 5/8 clayey Silty Sand	SA					
2.0					7.5 YR 5/8 clayey Silty Sand	SA					
2.5					7.5 YR 5/8 clayey Silty Sand	SA					
3.0					7.5 YR 5/8 clayey Silty Sand	SA					
3.5					7.5 YR 5/8 clayey Silty Sand	SA					
4.0					7.5 YR 5/8 clayey Silty Sand	SA					
4.5					7.5 YR 5/8 clayey Silty Sand	SA					
5.0					7.5 YR 5/8 clayey Silty Sand	SA					
5.5					5 YR 8/2 clayey Silty Sand	SA					
6.0					5 YR 8/2 clayey Silty Sand	SA					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)



## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/27/94  
 LOCATION ID: 0302 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Large Crater approx 100' SW of Area 3. In crater  
on northeast side approx 50' north of road.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100	Clayey Silty Sand 5YR 5/6	SC					
1.0				100	Clayey Silty Sand 5YR 5/6	SC				Some rock debris	
1.5				100	Clayey Silty Sand 5YR 5/6	SC				Some cement	
2.0				100	Clayey Silty Sand 5YR 5/6	SC				Cement/rock debris	
2.5				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
3.0				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
3.5				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
4.0				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
4.5				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
5.0				100	Clayey Silty Sand 5YR 5/6	SC					
5.5				100	Clayey Silty Sand 5YR 5/6	SC					
6.0				100	Clayey Silty Sand 5YR 5/6	SC					

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
Paul K. Miller 8/29/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154DATE: 8/29LOCATION ID: 0303BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Approx 75' south of Road, ~100' East end of large pipe. North tip of crater

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/6 clayey silty sand	sn					
1.0					7.5 YR 5/6 clayey silty sand	sn					
1.5					7.5 YR 5/6 clayey silty sand	sn					
2.0					7.5 YR 5/6 clayey silty sand	sn					
2.5					7.5 YR 5/6 clayey silty sand	sn					
3.0					7.5 YR 5/6 clayey silty sand	sn					
3.5					7.5 YR 5/6 clayey silty sand	sn					
4.0					7.5 YR 5/6 clayey silty sand	sn					
4.5					7.5 YR 5/6 clayey silty sand	sn					
5.0					7.5 YR 5/6 clayey silty sand	sn					
5.5					7.5 YR 5/6 clayey silty sand	sn					
6.0					7.5 YR 5/6 clayey silty sand	sn					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
MM 8/29/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

**SOIL BORING LOG**

SITE ID: KRTLD154 DATE: 8/29/94  
 LOCATION ID: 0304 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Approx 150' South of 0301 0302. In Crater approx  
75' South of road. South edge of crater.  
 COMMENTS: That goes along south edge of Area 3.  
 FIELD REPRESENTATIVE(S): PKM

**LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)**

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/6 IN	WATER DEPTH/REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand S4R S/L	SC				Some Organics	
1.2				100	Clayey Silty Sand S4R S/L	SC				Some Organics	
1.5				100	Clayey Silty Sand S4R S/L	SC					
2.0				100	Clayey Silty Sand S4R S/L	SC					
2.5				100	Clayey Silty Sand S4R S/L	SC					
2.0				100	Clayey Silty Sand S4R S/L	SC					
3.5				100	Clayey Silty Sand S4R S/L	SC					
4.2				100	Clayey Silty Sand S4R S/L	SL					
4.5				100	Clayey Silty Sand S4R S/L	SC					
5.0				100	Clayey Silty Sand S4R S/L	SC					
5.5				100	Clayey Silty Sand S4R S/L	SC					
6.0				100	Clayey Silty Sand S4R S/L	SC					

**SAMPLE METHODS**

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

PKM 8/29/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

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## SOIL BORING LOG

SITE ID: CRFLD 154 DATE: 8/27  
 LOCATION ID: 0305 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: North North West USGS Well 1001, near east of fuselage, south of large pipe. Inside southern lip of crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): \_\_\_\_\_

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	7.5 YR 5/4 Clayey Silty Sand	SA				Some organics	
1.0					7.5 YR 5/4 Clayey Silty Sand	SM					
1.5					7.5 YR 6/4 Clayey Silty Sand	SM					
2.0					7.5 YR 6/4 Clayey Silty Sand	SM					
2.5					7.5 YR 6/4 Clayey Silty Sand	SM					
3.0					7.5 YR 6/4 Clayey Silty Sand	SM					
3.5					7.5 YR 6/6 Clayey Silty Sand	SM					
4.0					7.5 YR 6/6 Clayey Silty Sand	SM					
4.5					7.5 YR 6/6 Clayey Silty Sand	SM					
5.0					7.5 YR 6/6 Clayey Silty Sand	SM					
5.5					5 YR 8/2 Clayey Silty Sand	SM				Some	
6.0					5 YR 8/8 Clayey Silty Sand	SM				Cementation	

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/29/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/29/94 <sup>PKM</sup>  
 LOCATION ID: 0306 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: SSTM Add On North side of Crater approx  
200' Northwest of Well 1001 South of Road to Area 3 ~ 100'  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/6	SC				Some Organic	
1.0				100	Clayey Silty Sand 5YR 5/6	SC				Some Organic	
1.5				100	Clayey Silty Sand 5YR 5/6	SC				organic, Cement	
2.0				100	Clayey Silty Sand 5YR 5/6	SC				Cement	
2.5		0001	A	100	Clayey Silty Sand 5YR 5/6	SC					
3.0				100	Clayey Silty Sand 5YR 5/6	SC					
3.5				100	Clayey Silty Sand 5YR 5/6	SC					
4.0				100	Clayey Silty Sand 5YR 5/6	SC					
4.5				100	Clayey Silty Sand 5YR 5/6	SC					
5.0				100	Clayey Silty Sand 5YR 5/6	SC				Rock debris	
5.5				100	Clayey Silty Sand 5YR 7/2	SC				Cement??	
6.0				100	Clayey Silty Sand 5YR 7/2	SC				Cement present	
										Cement present	

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD154 DATE: 8/29  
 LOCATION ID: 0307 BORE HOLE DEPTH (FT): 6.0  
 BORE HOLE DIAMETER (IN): 2" CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: North of US6 well 1001, on east side  
of crater inside lip.  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	2.5 YR 6/4 clayey silty sand	SM					
1.0					2.5 YR 6/4 clayey silty sand	SM					
1.5					2.5 YR 6/4 clayey silty sand	SM					
2.0					2.5 YR 6/4 clayey silty sand	SM					
2.5					2.5 YR 6/4 clayey silty sand	SM					
3.0					2.5 YR 6/4 clayey silty sand	SM					
3.5					2.5 YR 6/4 clayey silty sand	SM					
4.0					2.5 YR 6/4 clayey silty sand	SM					
4.5					5 YR 8/2 clayey silty sand	SM					
5.0					5 YR 8/2 clayey silty sand	SM					
5.5					5 YR 8/2 clayey silty sand	SM					
6.0					5 YR 8/2 clayey silty sand	SM					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

MM 8/29/94  
 FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0154 DATE: 8/29/94  
 LOCATION ID: 0308 BORE HOLE DEPTH (FT): 6  
 BORE HOLE DIAMETER (IN): 2 CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: SSTM Add On. Approx 150' due north of well 1001  
75' east of 0305, 0306. On west rim of crater  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PLM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
5				100	clayey silty sand SYR 5/6	SC				Same cement	
10				100	clayey silty sand SYR 5/6	SC					
15				100	clayey silty sand SYR 5/6	SC					
20				100	clayey silty sand SYR 5/6	SC					
25				100	clayey silty sand SYR 5/6	SC					
30				100	clayey silty sand SYR 5/6	SC					
35				100	clayey silty sand SYR 5/6	SC					
40				100	clayey silty sand SYR 5/6	SC					
45				100	clayey silty sand SYR 5/6	SC					
50				100	clayey silty sand SYR 7/2	SC				Same cementation	
55				100	clayey silty sand SYR 7/2	SC				Same cementation	
60				100	clayey silty sand SYR 7/2	SC					

## •• SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## • CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTLD 154DATE: 8/29LOCATION ID: 0309BORE HOLE DEPTH (FT): 6.0BORE HOLE DIAMETER (IN): 2"CONSTRUCTION METHOD: ALOCATION DESCRIPTION: North North East of USGS well 1001. Eastern  
most crater. Inside SW lip of craterCOMMENTS: STM ADD-ONFIELD REPRESENTATIVE(S): Johnson

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5				100%	5YR 5/4 Silty Clayey Sand	SN					
1.0					5YR 5/4 Silty Clayey Sand	SN					
1.5					5YR 5/4 Silty Clayey Sand	SN					
2.0					5YR 5/4 Silty Clayey Sand	SN					
2.5					5YR 5/4 Silty Clayey Sand	SN					
3.0					5YR 5/4 Silty Clayey Sand	SN					
3.5					5YR 5/4 Silty Clayey Sand	SN					
4.0					5YR 5/4 Silty Clayey Sand	SN					
4.5					5YR 5/4 Silty Clayey Sand	SN					
5.0					5YR 5/4 Silty Clayey Sand	SN					
5.5					5YR 5/4 Silty Clayey Sand	SN					
6.0					5YR 5/4 Silty Clayey Sand	SN					

## SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION

T - TRENCHING

B - BOREHOLE

O - OTHER

8/29/94  
FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

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## SOIL BORING LOG

SITE ID: KETLD154DATE: 8/29/94LOCATION ID: 0310BORE HOLE DEPTH (FT): 6BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: 7COMMENTS: SSTM Add on. Approx 150' NE of well 1001. Approx 75' east of 0307+0308 North rim of crater, just inside.FIELD REPRESENTATIVE(S): Plan

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
1.5				100	Clayey Silty Sand 5YR 5/6	SC				Same cement	
1.0				100	Clayey Silty Sand 5YR 5/6	SC					
1.5				100	Clayey Silty Sand 5YR 5/6	SC					
2.0				100	Clayey Silty Sand 5YR 5/6	SC					
2.5				100	Clayey Silty Sand 5YR 5/6	SC					
3.0				100	Clayey Silty Sand 5YR 5/6	SC					
3.5				100	Clayey Silty Sand 5YR 5/6	SC					
4.0				100	Clayey Silty Sand 5YR 5/6	SC					
4.5				100	Clayey Silty Sand 5YR 5/6	SC					
5.0				100	Clayey Silty Sand 5YR 7/2	SC					
5.5				100	Clayey Silty Sand 5YR 7/2	SC				Some cementation Cementation Cementation	
6.0				100	Clayey Silty Sand 5YR 7/2	SC					

## \*\* SAMPLE METHODS

A - AUGER CUTTINGS  
D - DRIVE TUBE  
S - SHELBY TUBE  
H - HAND SCOOP  
O - OTHER

## \* CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
A - AUGERED OR BORED  
C - CABLE TOOL  
D - DUG  
J - JETTED

P - AIR PERCUSSION  
T - TRENCHING  
B - BOREHOLE  
O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE) Plan 8/29/94

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: ARTLD154 DATE: 10/12/94  
 LOCATION ID: 0311 BORE HOLE DEPTH (FT): 2.0  
 BORE HOLE DIAMETER (IN): 2 - CONSTRUCTION METHOD: A  
 LOCATION DESCRIPTION: Background location 1/2 mile west of mile marker 6  
along fence road. On southern border of ranch. Approx 1 mile from main testing area  
 COMMENTS: \_\_\_\_\_  
 FIELD REPRESENTATIVE(S): PKM, JJ, RM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS / 6 IN	WATER DEPTH / REMARKS	ELEVATION (FT)
0.5					Clayey, silty, sand 54R-6/4	sm					
1.0					Clayey, silty, sand 54R 6/4	sm				Some cemented pebbles	
1.5		0001	A	100%	Clayey, silty, sand 54R 6/4					Cemented pebbles	
2.0					Silty sand, 54R 7/3	sm				Carbonate cement	
										Made 2 boreholes to collect enough sample	

## SAMPLE METHODS

A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

## CONSTRUCTION METHODS

R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED

P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)

TECHNICAL REVIEWER: (SIGNATURE/DATE)

## SOIL BORING LOG

SITE ID: KRTL0157DATE: 10/12/97LOCATION ID: 0312BORE HOLE DEPTH (FT): 3.5BORE HOLE DIAMETER (IN): 2CONSTRUCTION METHOD: ALOCATION DESCRIPTION: Background location. ~1/4 mile west of Monitor  
Well 1004, 90' south of cattle trail.

COMMENTS: \_\_\_\_\_

FIELD REPRESENTATIVE(S): PKM, TJ, RM

## LITHOLOGIC LOG (FOR TRENCH, MAKE ADDITIONAL SKETCHES ON BACK AS NEEDED)

DEPTH INTERVAL (FT)	SAMPLE INTERVAL (FT)	SAMPLE ID	SAMPLE METHOD	SAMPLE RECOVERY (%)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	CONSTRUCT WELL DATA	BLOWS/ 6 IN	WATER DEPTH/ REMARKS	ELEVATION (FT)
0.5					Clayey, silty, sand 54R 6/4	sm					
1.0					Clayey, silty, sand 54R 6/4	sm				Small carbonate cemented pebbles	
1.5-2.0					Clayey, silty, sand 54R 6/4	sm				"	
2.0-2.5	0001	A	100%		Clayey, silty, sand 54R 6/4	sm				"	
2.5-3.0					Silty sand 54R 7/3	sm				Carbonate cement	
3.0-3.5					Silty sand 54R 7/3	sm				Carbonate cement	

**SAMPLE METHODS**  
 A - AUGER CUTTINGS  
 D - DRIVE TUBE  
 S - SHELBY TUBE  
 H - HAND SCOOP  
 O - OTHER

**CONSTRUCTION METHODS**  
 R - ROTARY (STATE ROTARY METHOD)  
 A - AUGERED OR BORED  
 C - CABLE TOOL  
 D - DUG  
 J - JETTED  
 P - AIR PERCUSSION  
 T - TRENCHING  
 B - BOREHOLE  
 O - OTHER

FORM COMPLETED BY: (SIGNATURE/DATE)  
[Signature] 10/12/97

TECHNICAL REVIEWER: (SIGNATURE/DATE)

SURFACE WATER SAMPLING FIELD FORMSITE ID: KRTL0154 DATE: 9/7/94LOCATION ID: 0166 SAMPLING PERIOD:SAMPLE ID: 1001 START: 1030SAMPLING METHOD\*: G COMPLETE: 1030LOCATION DESCRIPTION: Equipment Blank - From bucket of backhoe.COMMENTS: ASTM Type II water poured into backhoe bucket, then collected in bottlesFIELD REPRESENTATIVE(S): Pkm, JJ

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN pH S.U. \_\_\_\_\_

SPECIFIC CONDUCTANCE Ec  $\mu$  mhos/cm \_\_\_\_\_REDOX POTENTIAL Eh mvolts 2/4 \_\_\_\_\_

TEMPERATURE T °C \_\_\_\_\_

ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

DISSOLVED OXYGEN DO mg/l \_\_\_\_\_

## \* SAMPLING METHODS:

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

P. K. Min 9/7/94

FORM COMPLETED BY (SIGNATURE/DATE) TECHNICAL REVIEWER (SIGNATURE/DATE)

**SURFACE WATER SAMPLING FIELD FORM**SITE ID: KRTL0154 DATE: 9/7/94LOCATION ID: 0246 SAMPLING PERIOD:SAMPLE ID: 1001 START: 1030SAMPLING METHOD\*: G COMPLETE: 1070LOCATION DESCRIPTION: Equipment blank - Hand Auger BitCOMMENTS: ASTM Type II Water poured through bit and collected in bottlesFIELD REPRESENTATIVE(S): Pkm, JJ**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN pH S.U. \_\_\_\_\_

SPECIFIC CONDUCTANCE Ec  $\mu$  mhos/cm \_\_\_\_\_

REDOX POTENTIAL Eh mvolts \_\_\_\_\_

TEMPERATURE T °C \_\_\_\_\_

ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

DISSOLVED OXYGEN DO mg/l \_\_\_\_\_

**\* SAMPLING METHODS:**

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

P. K. Miller 9/7/94  
FORM COMPLETED BY (SIGNATURE/DATE)\_\_\_\_\_  
TECHNICAL REVIEWER (SIGNATURE/DATE)

**SURFACE WATER SAMPLING FIELD FORM**SITE ID: KRTL0154 DATE: 9/7/94LOCATION ID: 0246 SAMPLING PERIOD:SAMPLE ID: 2001 START: 1030SAMPLING METHOD\*: G COMPLETE: 1030LOCATION DESCRIPTION: Ambient BlankCOMMENTS: ASTM Type II Water poured into bottles at location.FIELD REPRESENTATIVE(S): PKM, JT**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN pH S.U. \_\_\_\_\_

SPECIFIC CONDUCTANCE Ec  $\mu$ mhos/cm \_\_\_\_\_

REDOX POTENTIAL Eh mvolts \_\_\_\_\_

TEMPERATURE T °C \_\_\_\_\_

ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

DISSOLVED OXYGEN DO mg/l \_\_\_\_\_

**• SAMPLING METHODS:**

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

PKM 9/7/94  
FORM COMPLETED BY (SIGNATURE/DATE)\_\_\_\_\_  
TECHNICAL REVIEWER (SIGNATURE/DATE)

**SURFACE WATER SAMPLING FIELD FORM**SITE ID: KRTL0154 DATE: 9/7/94LOCATION ID: 0247 SAMPLING PERIOD: \_\_\_\_\_SAMPLE ID: 1001 START: 1030SAMPLING METHOD\*: G COMPLETE: 1030LOCATION DESCRIPTION: Equipment Blank - Sampling ScoopCOMMENTS: ASTM Type II water poured into scoop and  
then into bottlesFIELD REPRESENTATIVE(S): PKM, JJ**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN pH S.U. \_\_\_\_\_

SPECIFIC CONDUCTANCE Ec  $\mu$  mhos/cm \_\_\_\_\_

REDOX POTENTIAL Eh mvolts \_\_\_\_\_

TEMPERATURE T °C \_\_\_\_\_

ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

DISSOLVED OXYGEN DO mg/l \_\_\_\_\_

**• SAMPLING METHODS:**

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

PKM 9/7/94  
FORM COMPLETED BY (SIGNATURE/DATE)\_\_\_\_\_  
TECHNICAL REVIEWER (SIGNATURE/DATE)

SURFACE WATER SAMPLING FIELD FORMSITE ID: KRTL0154 DATE: 9/7/94LOCATION ID: 0248 SAMPLING PERIOD:SAMPLE ID: 1001 START: 1030SAMPLING METHOD\*: G- COMPLETE: 1030LOCATION DESCRIPTION: Equipment Blank - Sampling BowlCOMMENTS: ASTM Type II water poured into bowl, and then into bottlesFIELD REPRESENTATIVE(S): PKM, JT

## PARAMETER MEASUREMENTS:

POTENTIAL OF pH S.U. \_\_\_\_\_

HYDROGEN

SPECIFIC Ec  $\mu$  mhos/cm \_\_\_\_\_

CONDUCTANCE

REDOX POTENTIAL Eh mvolts \_\_\_\_\_

TEMPERATURE T °C 20ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

DISSOLVED OXYGEN DO mg/l \_\_\_\_\_

## \* SAMPLING METHODS:

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

PKM 9/7/94  
FORM COMPLETED BY (SIGNATURE/DATE)\_\_\_\_\_  
TECHNICAL REVIEWER (SIGNATURE/DATE)



## SURFACE WATER SAMPLING FIELD FORM

SITE ID: KRTLD154 DATE: 9/17/94LOCATION ID: 0314 SAMPLING PERIOD:SAMPLE ID: 0001 START: 0920SAMPLING METHOD\*: PP COMPLETE: 0935LOCATION DESCRIPTION: Dirt Road to McCormick Ranch. Right side of road. Approx 3/4 mile southwest of turn from paved road.COMMENTS: Filters used only for metals. Water had too much sediment, and clogged the filters very quickly.FIELD REPRESENTATIVE(S): PKM, JT

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN pH S.U. 9.36 / 18.5°CSPECIFIC CONDUCTANCE Ec  $\mu$  mhos/cm 153.5  $\mu$ S / 19.0°CREDOX POTENTIAL Eh mvolts N/ATEMPERATURE T °C 19ALKALINITY (CaCO<sub>3</sub>) ALK mg/l N/ADISSOLVED OXYGEN DO mg/l N/A

## \* SAMPLING METHODS:

G - GRAB

PP - PERISTALTIC PUMP

O - OTHER (SPECIFY)

PKM 9/17/94

FORM COMPLETED BY (SIGNATURE/DATE)

TECHNICAL REVIEWER (SIGNATURE/DATE)

# **SURFACE WATER QUALITY SAMPLING RECORD**

SITE ID KRTL0154LOG DATE 9/17/94LOCATION ID 0314**SAMPLING INFORMATION**WITHDRAWAL METHOD PPpH METER ID Corning pH meterFILTER SIZE .45  $\mu$ 

PUMP ID \_\_\_\_\_

THERMOMETER ID N/A

ALKALINITY KIT ID \_\_\_\_\_

Ec METER ID N/AFIELD REPRESENTATIVE(S) PKM, JJINSTRUMENT(S) USED pH meter**CALIBRATION INFORMATION**DATE/TIME OF LAST Ec CALIBRATION N/A

TIME	pH METER STANDARDIZATION			COMMENTS
	4.00	7.00	10.00	
		<u>7.00</u>	<u>10.01</u>	<u>/19.7°C</u>

		A(MmV)	B(mBV)	T(°C)
ORP	INITIAL ZOBELL			
PROBE:	FINAL ZOBELL			

**SHIPPING INFORMATION**

LAB(S) SHIPPED TO: \_\_\_\_\_

DATE(S) SHIPPED: \_\_\_\_\_

METHOD OF SHIPMENT: \_\_\_\_\_

COMMENTS \_\_\_\_\_

## INDEX

880 -

~~886~~ 3406 Bruce Dabbler

Dick Ruddy - meet at Carlisle

at 10:00 r

escort out to site

Property of Peter Middlebrooks

Lus Alamos Technical Associates

Address 2400 Louisiana NE Bldg 1 Suite 400

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Telephone (505) 880-3438

This Book is manufactured of a High Grade  
50% Rag Ledger Paper having a Water Resist-  
ant Surface, and is sewed with Nylon Water-  
proof Thread.

8/24/94 McCormick Ranch ①

0630 Arrive at lab & begin loading vehicles.

0710 Leave for site.

0730 Arrive at site. Cut lock off of

storage bunker & moved equipment into bunker.

0745 Jeff Johnson giving health & safety briefing to EOD, he gave the H&S briefing to us on-site yesterday at 0930.

0803 Leave for ART Test area

0808 Arrive at ART Test, begin setting up to sample.

0820 Begin sampling 0276

It is the Newburnham Rd

0915 Complete Sampling 0276

Sampled from 2.5' - 6.0'

0930 Leave to lab to get pipe wrenches

0950 At lab. Got wrenches, ordered supplies

1030 Leave for site after talking w/ Michelle Hedrick

1050

Reconing

1105 Setting up at ART site

1110 Begin EOD clearance

②

1112 Begin sampling 0278. Furthest New  
of the pools  
1145 Complete sampling, going back to decon  
1148 Doing Decon  
1215 Back at site. Break for lunch  
1225 Starting to sample 0280  
1255 Complete sampling 0280  
1313 leave to decon  
1325 Back to site  
1330 Start sampling 0282  
1405 Complete sampling 0282  
1420 Leaving site to decon. Wind  
blowing dust. Will stop sampling  
for the day.  
1500 At trailer moving equipment  
1535 Leave for day

~~No further entries~~

8/24/94

~~McMann~~

③

8/25/94 McCormick Ranch  
0700 Arrive at trailer & load gear.  
0710 Leave for site  
0735 Arrive at site. Loading  
equipment from bunker.  
0740 Leave for ALT Test site.  
0743 At ALT test site.  
0745 Received H&S briefing. Setting up  
0755 Start augering 0284  
0830 Complete sampling 0284. Going to  
decon  
0852 Decon completed. Leaving for H&S  
Area (Geophysical Area 1)  
0900 At Area 1  
0930 P Middlebrooks left site  
Replaced by S. Gorin (H&S)  
H&S briefing by J. Johnson  
0935 Augering  
1050 Completed 0281 and 0082  
in Alt 4. Decontaminating  
sampling equipment  
1119 Complete Decon - (returning  
to Area 1)  
After R Mn 8/25/94

- ④
- 112Z Setting up to Auger  
0083 and 0084
- 1200 Completed sampling
- 1205 Removing equipment
- 1220 Setting up to sample  
@ 0085 and 0086
- 1235 Pete Michelbrooks  
returned to site.  
S. Garip headed to fire lake  
while Pete M. replaces him  
sampling
- 1255 taking background soil  
sample. 0.8 miles west  
of site along south boundary  
road. ~100' north  
of road. marked  
w/ stake painted orange

- 1315 Back at decon area. leaving to  
sample 0085 and 0086
- 1325 Getting up for 0086
- 1350 Sampling 0085
- 1400 Getting up at 0088
- 1410 Begin sampling
- 1445 Sampling 0088
- 1455 leave to start decon
- 1515 Leave decon area for 0099  
and 0090
- 1525 At 0090 getting up
- 1535 Start sampling 0090
- 1550 Complete sampling 0090.
- 1605 Leave site for trailer
- 1630 At trailer, completing forms  
+ unpacking samples.
- 1650 Leave site

*Pete M. Michelbrooks*  
8/25/94

8/26/94

0650 Arrive at site Organizing equipment.

0710 Leave for site w/ M. Hedrick & Col. Ristuch.

0735 Arrive at site. Had a H&S briefing and start decan.

0810 Leave for Geophysical Area 3.

0815 At Area 3. Staking locations and setting EOD clearance.

0840 Begin sampling 0151-0152

0905 Complete sampling, moving to 0153-0154

0935 Complete sampling. Going back to decan.

1000 Perma-fix arrives w/ drums

1010 Complete decan, going back to Area 3

1015 Setting up for 0155-0158

1110 Complete sampling 0155-0158

Going back to decan

Run w/ decan Lunch break

Lunch over, setting up

Start sampling 0159-0162

1240 Complete sampling 0159-0162

1250 Back at decan area.

1257 Decan completed. Going back to 0163-0165

1305 At 0163-0165 Setting up &

Sampling scan area after sampling 0163-0165. Complete all

Sampling at Geophysical area 3.

1347 Leave for decan area.

1355 Leave site

1420 Back at office. Unloading samples and doing COCs.

1430 Telling of Michael Hedrick about rad survey/sampling.

1550 Leave site.

~~ADJ. FURTHER ENTERED~~

R. K. Mann 8/26/94

8/29/94

0700 At lab getting equipment loaded.

0715 Leave for site

0745 At site - Doing decon

0759 Complete decon. Going to

SSTM Add-on area to

stake locations.

1825 Start sampling at SSTM Add-on

0301, 0302

Complete sampling

0858 At 0307, 0304 setting up

0920 Sampling 0303, 0304 completed

Going to decon.

0937 Done w/ decon. Back to SSTM Add-on

0945 Back at site. Setting up to sample

0305 + 0306

1030 Complete 0305 → 0308. Duct to

decon area.

1035 At decon area

1044 Leave decon area for SSTM Add-on

1049 At SSTM Add-on. Setting up to

sample 0309 + 0310

1115 Leave 0309 + 0310 after sampling

Back to decon area

1128 Back at decon area

1122 Leave decon area. Will check stakes  
at sampling areas, because cows are  
destroying them.

1131 Checked areas. No stakes destroyed  
other than in geographical area 3.  
Leaving site for lab.

1155 At lab unloading equipment

1205 Lunch

1220 End lunch. Start completing forms

+ prepare to ship samples.

1550 Leave to send samples

1625 Samples dropped off at FedEx

8/29/94

Rick Mann



8/30/67

- 0700 Arrive at lab. Getting equipment organized.
- 0710 J.S. arrives with sharing salesman.
- 0750 Leaving for site.
- 0815 At site. Doing decon.
- 0825 Leave for buslay site and DADS Area for CPD clearance.
- 0833 At <sup>buslay</sup> ~~garage~~ site.
- 0845 ~~Garage~~ site cleaned. Going to Area 5.
- For clearance.
- 0910 At area 5 getting COC clearances.
- 0913 Back at ~~garage~~ buslay site. Setting up N sample.
- 1031 Leave area after sampling 0271-0275.
- Back to decon.
- 1036 At decon area.
- 1050 Leave decon area for Area 5.
- 1055 At Area 5. Setting up to sample.
- 1150 Back to decon after sampling Area 5 0225-0228.
- 1200 Done w/ decon.
- 1205 At site eating lunch.
- 1230 Prepare to sample.

- 1320 Finish sampling 0229-0233.
- Going back to decon.
- 1330 At decon area.
- 1337 Leave decon area.
- 1348 Back at Area 5. Will sample 0239-0239.
- 1448 Leaving Area 5 after sampling 0239-0237.
- 1457 Leaving decon area after unloading equipment & re-packing samples.
- 1503 Leave site.
- 1530 Back at Lab. Doing samples and packing bottles for SSTM Add. On that will go to Quartermaster.
- 1630 Leave Site.

*R. K. Miller* 8/30/67

8/31/94

0700 Arrive at lab. Load van with equipment  
 0726 Leave for site  
 0734 Arrive at decan area. Unloading equipment + decaning.  
 0758 Leave for Hi Fi area for 200 cleaners  
 0815 Complete 200 cleaners of Hi Fi area  
 0845-0855 Complete sampling 0238-0241  
 0915 Going back to decan.  
 0923 Back at decan area  
 0934 Decan complete. Leave for Area 5  
 0940 At Area 5 setting up for sample  
 1045 0242-0245.  
 Leave for decan area after sampling  
 0242-0245. Done w/ Area 5.  
 1050 Doing decan  
 1102 Decan complete. Switched out coolers. Leaving for Hi Fi area  
 1110 At Hi Fi. Setting up to sample  
 0286-0289  
 1203 Sampling of 0286-0289 complete.  
 Leaving for decan area.  
 At decan area  
 1219 Leave decan area for site (Hi Fi)

1225 At Hi Fi Area... Ending lunch.  
 1242 Finished with lunch. Start sampling 0290-0293  
 1325 Done w/ 0290-0293. Going back to decan  
 1337 At decan area  
 1342 leave decan area for Hi Fi.  
 1350 At Hi Fi setting up to sample  
 0294 & 0295.  
 1412 Complete sampling 0294-0295.  
 Going back to decan area  
 1416 At decan area dropping off equipment  
 trying up cooler  
 1420 Leave for laboratory.  
 1445 At laboratory. Unloading, packing samples  
 1550 Leave for dorm

L. K. Min 8/31/94

9/1/94

- 0650 Arrive at Lab. Load vehicle  
 0700 Leave for Micromide Ranch  
 0725 Arrived at Site Doing Decon.  
 0740 Leave to clear DST test,  
 generator pit, gravel pit, & Dip 5  
 finished w/ clearance w/ Eon staff  
 Start Sampling DIP5 Area  
 0251 - 0254  
 0931 Finish 0251-0254. Going back to  
 decon area.  
 0945 At decon area.  
 0958 Leave decon area for DIP 5.  
 1005 At Dip 5. Setting up for  
 Sample 0255-0258.  
 1107 Leave after sampling 0255-0258  
 Found metallic residues in  
 0258 at 2-2.5'. Collected  
 Sample, with ID#0251.  
 from 2.5-6'. called sample ID#002.  
 Back at decon area.  
 1115 Leave decon area for DIP 5  
 1120 At DIP 5 setting up for 0259-0262  
 1125 Complete 0259-0262  
 \*\*\* Saw small block of archaic residue  
 in 0262

- 1201 At decon area  
 1239 Leave decon area for DIP 5  
 1245 At Dip 5. Sampling 0263-0265  
 1318 Leave dip 5 after sampling 0263-0265  
 1325 Dropping off gear at decon area  
 picking up cooler  
 leave site  
 1330 At lab. Lunch.  
 1400 Lunch Over. Unloading &  
 Packing Samples.  
 1515 Sample Packing is Complete.  
 1520 Leave site for day

9/5/94

9/2/94

0 0645 Arrived site Filling water  
just & loading vehicle  
07 0710 Leave for site  
07 0735 Arrive at site. doing decon  
08 0800 Leave for gravel pit.  
08 0807 At gravel pit. Setting up  
for 0246-0250  
09 0915 Leave gravel pit after  
completing site (0246-0250)  
Going back to decon.  
09 0930 Done w/ decon. Going to  
generator site.  
09 0935 At generator site. Setting up  
to sample 0266-0270.  
11 1107 Complete sampling 0266-0270.  
Will go back to decon.  
Deconing.  
10 1045 Leave for DCT West Area  
11 1104 At DCT West. Setting up  
to sample 0296-0300  
11 1126 Complete DCT West. Going  
back to decon area.  
11 1129 At decon area. (leaving up  
12 1220 Leave site

1230 At lunch  
1330 Leave lunch  
1340 At lab. Packaging samples for  
shipment.  
1445 Leave lab for FedEx

9/2/94 R-K-M

9/6/54

0640 Arrive at lab. Organizing equipment  
 0700 Leave to Carliole gate at meet Quick-shore people  
 0710 Leave to take Quick-shore to the side.  
 0740 At site. Dropping off Quick-shore at Chebs Area.  
 0805 Start EDD clearance of all 4 trenching areas.  
 0905 Complete EDD clearance (pre-screening). Doing recon for water sampling  
 0930 Leave site to pick up bubbles at GRAM.  
 1005 At Gram, getting bottles  
 1024 Leave GRAM for field lab.  
 1042 At field lab. Checking our monitoring instruments.  
 1130 Lunch  
 1145 Lunch over Start picking samples.  
 1310 Leave for FedEx  
 1340 At Fed Ex after picking up cover.  
 1400 At Gram Talking with Regional hydro people

1420 Leave for site.  
 1435 At site. Waiting for backhoe operator.  
 1510 Backhoe operator arrives. Going to drop off bottles.  
 1530 At decon pad. Looking for backhoe support vehicle.  
 1540 Found operator. Leaving for site with decon pad waterer.  
 1615 At site. Organizing equipment.  
 1630 Leave site.  
 1650 At field lab.  
 1655 Leave for day

*R. K. Min* 9/6/54

9/7/94

0800 Arrive at FSI for fit test  
 0810 Leave after getting fit test  
 0925 Through Turkish gate -  
 0945 At site. Preparing to take  
 equipment blanks. Contractors  
 doing clean on backhoe  
 030 Begin collecting following blanks:  
 Auger 0246-1001  
 Scoop 0247-1001  
 Bowl 0248-1001  
 Backhoe 0166-1001  
 Ambient Conditions 0246-2001.  
 1155 Done w/ blank collection.  
 Preparing to leave for site  
 Water bottles left  
 1 L Amber 20 Explosives, SVOC  
 1 L Poly 7 Pesticides  
 .5 L poly 5 NO<sub>3</sub>/NO<sub>2</sub>  
 .25 L amber 5 mercury  
 .5 L poly 5 cyanide  
 1 L poly 0 metals, nutrients, etc.

1205 At Chubs over setting up  
 1220 Start Trenching N-S trench  
 in Area 4. Sampling from  
 0166-0185  
 1600 Complete sampling N-S trench  
 at Area 4. Trenched to 6',  
 reached native soils at 3'.  
 1610 Leave site for lab  
 1635 At lab. Packaging samples.  
 1745 Leave lab for Fed Ex.  
 1810 At Fed Ex. Picking off samples

K. K. Miller 9/7/94

9/8/94

- 0700 Arrive at lab. Loading equipment.  
 0705 Leave for site  
 0730 At site. Doing Decon  
 0755 Decon completed. Leaving for Trenching Area 4.  
 0800 At trenching Area 4. Setting up to start E-W trench. Photos (Trenching Area 4) 9/08/94
- 1) N-S trench from south 6' deep
  - 2) South end of N/S trench. Cables
  - 3) West side of N/S trench. Showing contact of silty sand w/ cemented layers at 3'. Shows native soils.
  - 4) N/S trench from North
  - 5) E-W trench 0-3'. From E View of cables
  - 6) E-W trench 0-3'. From E View of cables
  - 7) E-W clearing trench at 3'
  - 8) E-W Trench. SE wall. Showing contact at 1 1/2 - 2' w/ native soils
  - 9) Collecting sample 0191 in trench
  - 10) Collecting sample 0191 in trench
  - 11) E-W Trench to 6'. From East side. Shows cable + cement layer
  - 12) E-W Trench to 6'. From north. Shows cementation contact at 3'.

- 1145 Complete sampling E-W trench at Geophysical Area 4. Sampled to 6'. H.T. native soils at 2-3'. Collected 0186-0205.  
 1200 Decon completed. Leaving site for lab.  
 1225 At lab. Unloading samples and doing rad screening/sampling.
- | Rad Sample #    | Location Composite     |
|-----------------|------------------------|
| 0317-0001       | Area 1 Hand Auger      |
| 0317-0002       | Area 1 Hand Auger Dup. |
| 0318-0001       | Area 3 Hand Auger      |
| 0319-0001       | Area 5                 |
| 0320-0001       | Gravel Pit             |
| 0321-0001       | Pit S                  |
| 0322-0001       | Generator Site         |
| 0323-0001       | Fuelage                |
| 0323-0002       | Fuelage Duplicate      |
| 0324-0001       | Airt Test              |
| 0324-0001 w/mud | Airt Test w/mud        |
| 0325-0001       | H. Fi                  |
| 0326-0001       | DCT Hiest              |
| 0327-0001       | SSTM Add-On            |
- 1430 Leave site for Day

*R. E. M.* 9/8/94



9/9/94

0700 Arrive at lab. Loading equipment  
0705 Leave for site. Will start

Trenching Area 3 and resample  
0266 + 0296 (which reached the  
lab at 9°C)

0710 At site. Dry dean

0740 Leave for Trenching Area 3

0750 At Trenching Area 3. Beginning

to trench the N-S trench

20°E, 40°N to 20°E, 41°5'N

1045 Complete trenching the N-S trench

Sampled 0086-0105

Trench total depth of 9'

Saw Native soil at 5-6'

on West side of trench and

7-8' on the East side of trench

Obvious ground disturbance had  
has been filled in

1115 Leave Trenching Area 3 after

filling in & marking trench

At Generator site. Re-sampling

0266.

1125 Leave 0266. Car DCT - Head

1130 At 0296 sitting up

1140 Complete sampling 0296 at

DCT - Head. Going back to decon  
area

1141 At decon area. Unloading equipment

1145 Leave site for lab

1210 At lab. Unloading & checking in samples

1230 Lunch

1245 Lunch over. Going to Gram.

1245 Back from Gram w/ coolers & bottles

Picking samples from Trenching Area 4

1540 Done packing samples. Finished for day

9/9/94 J.S.K. Mun



9/12/94

- 0650 Arrive at lab. Loading vehicle.  
 0705 Leave for site.  
 0735 At site. Loading vehicle & doing decon.  
 0752 Leave for site of Area 2.  
 0755 At geophysical area 2, trenching area 3.  
 Will sample E-W trench.  
 Trench will be from 20E, 415N to SE, 415N.  
 Sample #5 0111-0130

Photos

- 13) Trenching Area 3 E-W Trench 0-3' showing clayey sandy soils to 3' throughout.  
 14) Trenching Area 3 E-W Trench 6' showing soil horizons from south side of trench. Same as 14' Trench at 6' from the east.  
 15) Complete sampling E-W trench at geophysical area 2, Trenching Area 3. Went to 6'. Sampled 0111-0130

- 1050 Back at bunker. Doing decon on battery & sampling equipment.  
 1140 Leave to Trenching Area 2 to start trenching there.  
 1150 Start trenching at TA 2.  
 N/S Trench. 70E, 265N  $\rightarrow$  70E, 280N  
 Hit large quantities of burned debris (wood, cable, spools) at 3' in south portion of trench.  
 Move trench to 70E, 270N  $\rightarrow$  70E, 275N

Photos

- 17) Trench from 0-3' from south. Showing cables/debris  
 18) Trench from 0-6' from south. Showing debris  
 19) Same as 18  
 20) Cables on south side of trench  
 21) Debris on north wall of trench  
 22) Black burned layer on east wall of trench at 4' depth  
 23) North side of N/S trench at 9'  
 24) South side of N/S trench at 9'  
 25) Trench at 9' (full length) taken from South side.

1430

Complete sampling the N/S trench at Trenching Area 2. Hit native soils at 6-7', so took trench to 9'. Area of burning and debris buried. Sampled

0041-0060.

Trench filled & started going back to decompress to load coolers.

1500

Leave site for day

1520

At lab. Checking in samples

1550

Done for day.

*John*

9/18/94

9/13/94

0650 Arrive at lab. Loading coolers and water sampling equipment leave for site.

0705

0735 Arrive at site. Preparing bottles for water sampling

0855 Leave to start water sampling

0910 At background site (0314)

approx 3/4 mile onto dirt road from Juler tower paved road

0920 Begin sampling 0314

0935 Complete sampling 0314. Doing field measurements & loading car

0945 Leave for site to do on-site

water sampling

1005 Locations marked for water sampling

have dried up. No more water sampling today. Back to

down bunker to unload equipment & prepare for trenching.

1030 Leave for Trenching Area 2 to

do the E-W trench

1040 Start trenching.

Photos

- 1) Trenching Area 2. E-W Trench. 0-3' from East
- 2) TAZ E-W 0-6' from North
- 3) TAZ E-W 0-6' from South
- 4) TAZ E-W 0-4' from East

1400 Complete trenching E-W trench went to 9' hit native soils at 6-7'. Filling trench

1420 Complete filling trench + moving shoring equipment back to decommission.

1430 Leave site

1500 At Lab. Packing samples for shipment

1700 Leave lab for Fed Ex

1730 Finish at Fed Ex

9/14/94

- 0615 Arrive at lab. Loading equipment
- 0628 Leave for site
- 0655 At second bunker. Doing decom of sampling equipment and bunker
- 0755 Leave for Trenching Area 1, Geophysical Area 1.

Photos

- 5) TAZ E-W 0-6' Showing large cement/rebar debris on east side
- one other debris throughout from 4-6' below surface

6) Same as 5

7) Same as 5

8) TAZ E-W 0-9' From E

9) TAZ E-W 0-9' From N

1200 Finish E-W trench. Sampled 0001-0020. Stopped at 12' Still in debris. Reached limit of buckles

1230 Start trenching N-S trench

*Shirley*

Photo 2

- 10) Geophysical Area 1 Trenching Area 1  
N/S trench 0-6' from South  
Showing concrete structure in N 1/2  
of trench!
- 11) TA 1 0-6' from ~~trench~~ west. Close-up  
of debris, concrete
- 12) TA 1 0-6' from east. Showing  
native soils at 5'
- 13) TA 1 0-6' from north. Showing  
length of trench

- 1430 Complete sampling N/S trench.  
Hit concrete on South side at 3'  
Hit concrete on North side at 4'  
Hit native soils on South side at 5'  
Could not get past concrete on  
North side. Stopped at 6'  
Back at decon area. Fishing  
decon of backhoe prior to releasing  
backhoe from Mulberry ranch site  
Leave site
- 1445 At Lab. Unloading gear & putting  
samples
- 1505 Complete billing samples. Done  
for day

9/14/94 P.K. Min

9/15/94

- 0715 Arrive at Lab. Organizing equipment
- 0730 Leave for site
- 0755 Arrive at site. Win load up quickshore  
on dealers truck.
- 0815 Dope loading shoring materials.
- 0820 At decon area. Getting flays
- 0825 At Area 2. Digging clearance w/ EOC.
- 0855 Back at decon area. Digging decon.
- 0925 At Area 2. Digging up to sample.  
numbers 0131-0134.
- 1015 Complete 0131-0134. Back at decon area.
- 1032 Leave decon area. Back 0135-0138.
- 1035 Start sampling 0135-0138.
- 1110 Complete sampling 0138-0139.
- Going back to decon area.
- 1115 At decon area.
- 1125 Leave decon area. Back 0139-0142.
- 1140 Start sampling 0139-0142.
- 1200 Complete sampling 0142-0143.
- 1230 Arrive back with unloading loading gear.
- 1235 Leave site.
- 1305 Back at lab.
- 1400 Complete picking samples. Done for day

9/15/94 P.K. Min

9/16/84

- 0650 Arrive at lab. Loading vehicle  
 0705 Leave for site  
 0733 At site. Getting EOD clearance  
 of Geophysical Area 4.  
 0800 Done w/ EOD clearance. Buckle up  
 decan.  
 0815 Done w/ decan. Leave for Area 2.  
 0820 At Area 2. Sampling 0143-0146 at  
 Desert floor.  
 0905 Complete 0143-0146. Going back  
 to decan.  
 0920 Decan complete. Going back to  
 Finish Area 2 (0147-0150)  
 0925 Start sampling 0147-0150  
 1010 Complete sampling 0147-0150.  
 Area 2 is completed. Back to decan  
 1022. Decan completed. Going to Area 4.  
 1025. At Area 4. Starting 0200-0201  
 1105. Complete 0200-0201. Back to decan  
 1115. Decan completed. Headed back  
 to do 0210-0213.  
 1117. At Area 4. Starting to Sample  
 0210-0213.  
 1200 Complete sampling 0210-0213.

1205. At decan area. Unloading gear  
 1210 Leave site.  
 1245 ~~Leave for~~ Pen- Arrive at lab.  
 Unload and pack samples.  
 1350 Leave lab for Fed Ex

9/16/84

Pat Davis

9/19/94

0650 Arrive at lab & loading equipment  
 0705 Leave for site  
 0732 Arrive at site  
 0750 Leave for area  
 0800 Start sampling 0214-0217  
 110832 Complete 0214-0217. Going back to decan.  
 0835 Back at decan area.  
 10845 Decan complete. Leave to do 0218-0221.  
 10850 Start 0218-0221  
 10970 Complete 0218-0221. Going back to decan  
 10933 At decan area.  
 10947 Leave decan area for 0222-0225  
 0950 At 0222-0225. Setting up to sample  
 1030 Complete sampling 0222-0225.  
 1055 Back at decan area. Doing final decan & cleaning up.  
 1115 Leave site

Mark Mun 9/19/94

9/20/94

0650 Arrive at lab. Doing Rad Fumery  
 0805 Complete rad fumery & sampling for 0329-0332.  
 0840 Finish dropping off rad samples w/ Capt. Adams. Signed over samples to him  
 0845 Check at lab. Loading samples from Trenching Areas 1, 2, & 3 to take back to field  
 1245 Done w/ Sample transfer & held for day. Will pack samples now.  
 1350 Done packing samples with tails. Samples to Fed Ex.

Mark Mun 9/20/94

9/21/94

- 0650 Arrived Lab. Loading equipment. Will take remaining samples out to field.
- 0720 Leave for site.
- 0755 At site. Unloading samples.
- 0930 Sample unloading complete. Going back to lab.
- 1000 At lab. Unloading equipment.
- 1005 Leave for site to get other sampling equipment and transfer it back to lab.
- 1035 At site. Loading equipment.
- 1055 Leave site.
- 1115 At lab. Unloading equipment.
- 1235 Leave for GRAM Inc. to drop off equipment.
- 1400 Back at lab after dropping off equipment. Loading vehicles again.
- 1420 Leave for day.

*Dr. L. Mear*

10/12/94

- 0900 Leave for McCormick Ranch to collect background samples. Picked up carload of all sampling equipment. All equipment had been cleaned on 9/19/94 & put in storage.
- 0935 At site. All background location 0311 along beach fence line.
- 0945 Collecting Sample 0311 - 0001.
- 0955 Leave for background location 0312.
- 1005 At location 0312, 1/4 mile west of well 1004.
- 1010 Collecting 0312 - 0001.
- 1020 Leave site to package samples.
- 1055 Packaging samples.
- 1150 Sample packaging complete. GRAM will ship the samples.

*Dr. L. Mear* 10/12/94